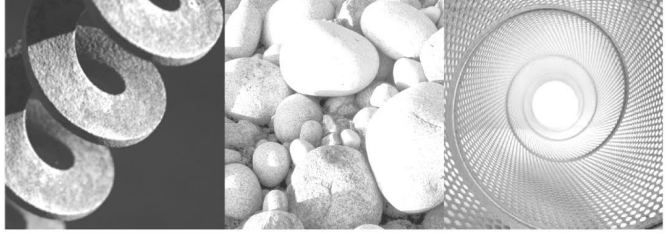

GEI Consultants

MassDEP RTN 3-23246

Phase V Status Report No. 29 and Remedial Monitoring Report No. 44

50 Tufts Street, Somerville, Massachusetts

Submitted to:
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February 9, 2026
Project No. 04516-3

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Acronyms and Abbreviations

µg/L	micrograms per liter
µg/m^3	Micrograms per cubic meter
AUL	Activity and Use Limitation
CEP	Critical Exposure Pathway
COPC	Compounds of Potential Concern
CRA	Comprehensive Remedial Action
CSA	Comprehensive Site Assessment
DNAPL	Dense non-aqueous phase liquid
EPA	U.S. Environmental Protection Agency
EPMM	Exposure Pathway Mitigation Measure
FIR	Final Inspection Report
GEI	GEI Consultants, Inc.
GLX	Green Line Extension
IH	Imminent Hazard
IRA	Immediate Response Action
lbs	Pounds
LQG	Large Quantity Generator
LSP	Licensed Site Professional
MassDEP	Massachusetts Department of Environmental Protection
MBTA	Massachusetts Bay Transportation Authority
MCP	Massachusetts Contingency Plan
MNA	Monitored Natural Attenuation
NAPL	Non-aqueous phase liquid
NSR	No Significant Risk
OHM	oil and/or Hazardous Material
OMM	Operation, Maintenance, and Monitoring
PCE	Tetrachloroethylene (perchloroethylene)
PSS	Permanent Solution Statement
RAM	Release Abatement Measure
RAO	Response Action Outcome
RAP	Remedial Action Plan
RIP	Remedy Implementation Plan
RMR	Remedial Monitoring Report
ROS	Remedy Operations Status
RTN	Release Tracking Number
SHE	Substantial Hazard Evaluation
SSDS	Sub-slab Depressurization System
SVE	Soil Vapor Extraction
TCA	1,1,1-trichloroethane
TCE	Trichloroethylene
VOC	Volatile Organic Compound

Executive Summary

On behalf of UniFirst Corporation (UniFirst) of Wilmington, Massachusetts, GEI Consultants, Inc. (GEI) prepared this Phase V Status Report No. 29 and Remedial Monitoring Report (RMR) No. 44 for the site located at 50 Tufts Street in Somerville, Massachusetts (the Site). The Site is identified by Massachusetts Department of Environmental Protection (MassDEP) Release Tracking Number (RTN) 3-23246. The Site includes the 50 Tufts Street property (the Property), other properties in the neighborhoods east and immediately north, south, and west of the Property, and the Michael E. Capuano Early Childhood Center (Capuano Center) located at 150 Glen Street in Somerville, Massachusetts. The Site has been in Phase V since 2011. This Phase V Status Report No. 29 covers the period from June 16, 2025, to December 15, 2025.

E.S.1. Background

From approximately 1955 to 2002, the Property was used for storage and distribution of industrial chemicals, laundry supplies, and dry-cleaning supplies. Chemicals stored at, and transported to and from the Property, included chlorinated volatile organic compounds (VOCs). In 2002, a release of these chlorinated VOCs – particularly tetrachloroethylene (also called perchloroethylene [PCE]), trichloroethylene (TCE), and 1,1,1-trichloroethane (TCA) – have been detected in soil, soil vapor, indoor air, and groundwater at the Property was reported to the MassDEP and assigned RTN 3-23246. Three other RTNs were subsequently issued for the Site: 3-24358, 3-24376, and 3-26114. For tracking and reporting purposes, these RTNs have been consolidated under RTN 3-23246.

The detection of chlorinated VOCs in indoor air at some buildings required the implementation of an Immediate Response Action (IRA). The Site was classified as Tier IC (Permit No. W085813). The “Phase II Comprehensive Site Assessment (CSA), Method 3 Risk Characterization, and Phase III Remedial Action Plan (RAP)” (Phase II/III) for the Site was submitted to MassDEP on July 14, 2008. The “Phase IV Remedy Implementation Plan” (Phase IV RIP) was submitted to MassDEP on August 10, 2009. The “Immediate Response Action Completion Report and Remedial Monitoring Report No. 11” (IRAC Report) was submitted to MassDEP on November 13, 2009, and the “Immediate Response Action Completion Report Amendment” (IRAC Report Amendment) was submitted to MassDEP on April 1, 2011. The “Phase IV Final Inspection Report, Remedial Monitoring Report No. 15, and Phase V Remedy Operation Status Report” (Phase IV FIR/Phase V ROS) was submitted to MassDEP on August 4, 2011. The Site was reclassified as Tier II on August 1, 2014, and a Tier Classification Extension was submitted on May 9, 2025.

The remedial action alternative (RAA) selected by the Phase III evaluation included soil vapor extraction (SVE) at the Property, Site wide Exposure Pathway Mitigation Measures (EPMMs), and Monitored Natural Attenuation (MNA). The Phase IV FIR/Phase V ROS documented that construction and implementation of the Comprehensive Response Action (CRA) have been completed, and additional activities, such as operation and monitoring of active remedial systems, will be conducted under Phase V.

On December 12, 2024, MassDEP issued to UniFirst a Notice of Audit Finding, Notice of Noncompliance (NOAF/NON) and Termination of ROS. The Site had been in ROS since August 2014; however, MassDEP

stated in the NOAF/NON that the requirements of 310 CMR 40.0893(2) were not being met and thus terminated ROS through the NOAF/NON. After clarification of the current regulatory status of the Site through subsequent meetings and discussions with MassDEP, UniFirst is continuing Phase V activities during the pendency of the NOAF/NON.

In accordance with the MCP, particularly 310 CMR 40.0892, this Phase V Status Report No. 29 and RMR No. 44 includes the following information regarding the remedial actions being conducted at the Site:

- A description of the type and frequency of operation, maintenance, and/or monitoring (OMM) activities.
- A description of any significant modifications made to the OMM activities since the last reporting period.
- An evaluation of the performance of the remedial action during the reporting period, including whether the remedial action is achieving remedial goals specified in the Phase IV RIP as described in 310 CMR 40.0874(3), and a description of any conditions or problems identified through OMM activities during the reporting period that are, or may be, affecting the performance of the remedial action.
- A description of the measures taken to address any conditions or problems identified through OMM activities during the reporting period.
- The name, license number, signature, and seal of the LSP.

Following is a summary of OMM activities conducted at the Site to date:

E.S.2. Capuano Center

A Sub-Slab Depressurization System (SSDS) was installed in the east wing of the Capuano Center, along with sealing of specific slab/wall joints to address potential vapor migration. Since its installation in February 2007, 24 rounds of indoor air sampling have confirmed elimination of the Critical Exposure Pathway (CEP) to indoor air, achieving a No Significant Risk (NSR) condition for occupants. The system, which includes three radon fans and remote telemetry, was validated in May 2015 with no VOCs detected above reporting limits. GEI concludes the system meets design standards and remedial objectives, and ongoing inspection, maintenance, and monitoring will continue.

E.S.3. Residential and Commercial Properties

During the Immediate Response Action (IRA), GEI promptly assessed and implemented measures to eliminate or reduce CEPs, considering property suitability and owner cooperation. Initial mitigation was conducted under IRA activities, with further assessments and actions incorporated into subsequent remedial plans. Following the submittal of the IRAC Report and IRAC Report Amendment, ongoing response actions addressing CEPs were integrated into the Phase IV RIP. Construction and implementation of the CRAs have been completed, and Operation, Maintenance, and Monitoring (OMM) activities—including operation of active remedial systems and EPMMs—are ongoing under Phase V or as Partial Permanent Solutions Statements. GEI continues to assess and implement new or modified EPMMs as needed during site redevelopment, in line with the established remedial plans.

EPMMs are relied upon to meet the remedial objectives at 20 residential and commercial properties, not including the EPMMs installed at 50 Tufts Street, 60 Tufts Street, and the Capuano Center. GEI conducted eight EPMM inspections during this reporting period in December 2025. GEI was unable to access several of the residential properties for the 2025 annual inspections but will continue its attempts to obtain access for EPMM inspections at these properties during the next reporting period.

Filing of a Partial Permanent Solution Statement (PSS) for an individual property documents the achievement of regulatory closure under the MCP for that property. This reporting period, GEI submitted a Partial PSS with No Conditions for 103 Washington Streett in June 2025.

A Partial PSS with Conditions Statement will be submitted for each property with an active or passive EPMM, where the EPMM has achieved the remedial objectives, an AUL has been recorded for the property, and sufficient post-EPMM indoor air sampling has been conducted. The filing of a Partial PSS with Conditions for an individual property documents the achievement of regulatory closure under the MCP for that property. Therefore, the Phase V provisions will not apply to properties for which a Partial PSS with Conditions has been submitted.

E.S.4. 60 Tufts Street

A SSDS was installed at the 17-unit condominium building at 60 Tufts Street, providing effective vapor mitigation and achieving a condition of NSR for occupants. Remote telemetry was added in July 2015. Due to blower noise complaints and operational issues in mid-2025, GEI temporarily shut down the system for repairs, with the blower replaced by December 24, 2025, and the system restarted on January 8, 2026, after indoor air and soil vapor sampling. GEI conducts quarterly monitoring and plans to continue operation and maintenance of the SSDS. Pre-EPMM indoor air testing and updated toxicological data suggest the active EPMM may not be required, and GEI has coordinated with owners and occupants for closure testing, with sampling rounds conducted in October 2025 and January 2026.

E.S.5. 50 Tufts Street Property

A combined SSDS and SVE system is installed at 50 Tufts Street. Monitoring data confirms that the SSDS provides effective coverage, resulting in a condition of NSR condition for building occupants. Remote telemetry, installed in April 2015, enables wireless monitoring of system parameters, with quarterly reviews of sub-slab conditions and monthly checks of off-gas treatment efficiency. Through December 15, 2025, the system has removed approximately 9,522 lbs of VOCs from the vadose zone. GEI will continue to operate and monitor the combined SSDS/SVE system to maintain indoor air quality and source removal.

E.S.6. Telemetry

The MCP requires remote telemetry systems to notify building owners/operators and MassDEP if the system fails. All properties with active EPMMs, except 9 Knowlton Street (whose owner has refused installation), have telemetry installed. GEI reviewed the current telemetry setup to align with the 2024 MCP amendments, which require continuous vacuum monitoring. However, properties with existing registered telemetry systems are exempt from this new requirement (310 CMR 40.1026[3][d][6]) and do not need to continuously report system vacuum.

E.S.7. Tufts Street Reconstruction Project

The City of Somerville is undertaking the Tufts Street Reconstruction project that includes sidewalk reconstruction, catch basin replacement, street realignment, re-paving, and planting trees and greenery. GEI has been working cooperatively with the City of Somerville and their LSP (Atlas Technical Consultants LLC [Atlas]) regarding the impact of the 50 Tufts Street contamination on the project.

On behalf of the City, Atlas submitted a Utility-Related Abatement Measure (URAM) and a Contained-In Determination (CID) in May 2025 to MassDEP. The CID identified low levels of PCE detected in one soil sample and requested soil in that area be reclassified as a non-hazardous waste for in-state landfill disposal. The URAM described the integration of soil and groundwater management into project design, soil management procedures and health and safety requirements for contractors. Construction began in September 2025 and is ongoing.

E.S.8. GLX Project

The MBTA Green Line Extension (GLX) Project expanded Green Line service through Somerville to Medford, including major infrastructure upgrades such as a new pump station, bridge reconstruction, new tracks, a train station, and utility improvements within and near the site. Between 2019 and 2024, approximately 25,400 cubic yards of soil were excavated, managed, and disposed of off-site during construction. More than 8 million gallons of groundwater dewatering effluent with elevated PCE levels was managed and treated before being discharged to the Millers River. Although construction is complete, GEI notes that the GLX Project may have permanently altered groundwater conditions at the site.

E.S.9. Monitored Natural Attenuation

MNA was incorporated into the remedial strategy to achieve a Permanent Solution for the Site, as documented in the Phase III Report submitted to MassDEP in 2008. GEI is conducting a groundwater monitoring program and a comprehensive update of the MNA evaluation to verify on-going natural attenuation at the Site. The MNA update will be included in the “Phase II CSA Addendum” report and updated Conceptual Site Model (CSM).

E.S.10. Response to Notice of Audit Finding/Notice of Non-Compliance

In connection with efforts to satisfy requirements in the December 12, 2024, NOAF/NON for a Phase II CSA Addendum and CSM update, GEI installed eight new groundwater monitoring wells across the site between September and December 2025. These wells targeted the 50 Tufts Street source area, the downgradient neighborhood and south of Washington Street, and included deep and shallow bedrock and overburden wells. Following installation, comprehensive groundwater sampling was conducted in fall 2025, with a second round planned for February 2026. In total, samples from 41 wells were analyzed for VOCs and, in selected locations, for MNA parameters.

As requested by the NOAF/NON, GEI attempted to conduct two rounds of indoor air testing at eight residences (91 and 93 Franklin Street; 166-168 Glen Street, 17, 32 and 34 Knowlton Street; 4, 11, and

19-19A Morton Street)[1] with passive EPMMs. The first round of testing was completed at seven out of eight properties between February and April 2025; one property owner (4 Morton Street) was unresponsive. A second round of testing was conducted in December 2025 at five of the eight properties, but access was not obtained at 17 Knowlton Street or 166-168 Glen Street. Recent discussions with the property owner of 4 Morton Street suggest that sampling will likely occur in the winter of 2026. GEI will continue efforts to access the remaining properties for a second round of testing.

As also requested by the NOAF/NON, GEI is working to gain access to seven properties whose owners previously refused UniFirst's offer to install vapor mitigation systems (99 Franklin Street, 162-164 Glen Street, and 9, 11-13, 17, 19, and 25 Tufts Street). Attempts were made via certified mail and in-person visits in December 2025. Contact was established with owners of three properties (162-164 Glen Street, 11-13 Tufts Street, and 19 Tufts Street), and indoor air sampling is being scheduled. Efforts to access the remaining properties will continue, and if successful, UniFirst will conduct further indoor air sampling to evaluate current conditions.

E.S.11. Remedial Monitoring Report No. 44

Remedial Monitoring Report No. 44, documenting OMM activities of active remedial systems at the Site, is presented in the BWSC-108A and 108B Transmittal Forms in Appendix A.

[1] 91 and 93 Franklin is a single building.

1. Introduction

On behalf of UniFirst Corporation (UniFirst) of Wilmington, Massachusetts, GEI Consultants, Inc. (GEI) prepared this Phase V Status Report No. 29 and Remedial Monitoring Report (RMR) No. 44 for the site located at 50 Tufts Street in Somerville, Massachusetts (the Site; Fig. 1-1). The Site is identified by Massachusetts Department of Environmental Protection (MassDEP) Release Tracking Number (RTN) 3-23246. The Site includes the 50 Tufts Street property (the Property), other properties in the neighborhoods east and immediately north, south, and west of the Property, and the Michael E. Capuano Early Childhood Center (Capuano Center) located at 150 Glen Street in Somerville, Massachusetts (Fig. 1-2). The Site has been in Phase V since 2011. This Phase V Status Report No. 29 covers the period from June 16, 2025, to December 15, 2025.

On December 12, 2024, MassDEP issued a Notice of Audit Finding, Notice of Noncompliance (NOAF/NON) and Termination of Remedy Operation Status (ROS). The Site had been in ROS since August 2014; however, MassDEP stated in the NOAF/NON that the requirements of 310 CMR 40.0893(2) were not being met and thus terminated ROS. UniFirst is continuing Phase V activities, consistent with discussions with MassDEP following its issuance of the NOAF/NON.

The NOAF/NON also required revisions to the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000) milestone reports in accordance with the following schedule:

- By February 12, 2025, submit a Tier Classification Extension in accordance with 310 CMR 40.0560(7).
- By April 14, 2026, submit an addendum to the Phase II Comprehensive Site Assessment (CSA) Report in accordance with the requirements 310 CMR 40.0835 including an updated Conceptual Site Model, site boundary based on the nature and extent of contamination.
- By June 12, 2026, submit an addendum to the Phase III Remedial Action Plan in accordance with the 310 CMR 40.0850 considering technological advances made in the treatment of chlorinated volatile organic compounds (VOCs).
- By August 12, 2026, submit an addendum to the Phase IV Remedy Implementation Plan in accordance 310 CMR 40.0874.
- By December 14, 2026, in accordance with the provisions of 310 CMR 40.40.0893(6)(e), achieve a Permanent or Temporary Solution for the Site.

During a meeting among MassDEP, UniFirst, GEI, and their respective counsel on April 25, 2025, MassDEP clarified that the submissions called for in the section of the NOAF/NON titled “Actions to be Taken and Deadline for Taking Such Actions,” including the “revised” Phase II, Phase III, and Phase IV reports should take the form of supplements or addendums to the existing reports, rather than comprehensive revisions. Also at the April 25, 2025, meeting, MassDEP extended the time for submission of the Tier Classification Extension form to May 9, 2025. UniFirst submitted the Tier Extension form within the extended time period provided by MassDEP.

1.1. Contact Information

Entity Undertaking Response Actions
UniFirst Corporation
68 Jonspin Road
Wilmington, MA 01887

Entity who will own, operate, and/or maintain the selected Remedial Action Alternative (RAA):
UniFirst Corporation
68 Jonspin Road
Wilmington, MA 01887
978-658-8888

Licensed Site Professional (LSP):
Ileen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President
GEI Consultants, Inc.
100 Quannapowitt Parkway
Wakefield, MA 01880
781.721.4012
LSP License No. 9719

Contact Person
Catherine Malagrida, P.G.
Environmental Compliance Manager
UniFirst Corporation
68 Jonspin Road
Wilmington, MA 01887
978.658.8888 ext. 0587

1.2. Background

In 2002, a release of chlorinated VOCs (particularly tetrachloroethylene [also known as perchloroethylene (PCE)], trichloroethylene [TCE], and 1,1,1-trichloroethane [TCA]) to soil and groundwater at the Property was reported to the MassDEP and assigned RTN 3-23246. Three other RTNs were subsequently issued for the Site: 3-24358, 3-24376, and 3-26114. For tracking and reporting purposes, these RTNs have been consolidated under RTN 3-23246.

The detection of chlorinated VOCs in indoor air at some buildings within the Site required the implementation of an Immediate Response Action (IRA). The "Phase II Comprehensive Site Assessment (CSA), Method 3 Risk Characterization, and Phase III Remedial Action Plan (RAP)" (Phase II/III) for the Site was submitted to MassDEP on July 14, 2008. The "Phase IV Remedy Implementation Plan" (Phase IV RIP) was submitted to MassDEP on August 10, 2009. The "Immediate Response Action Completion Report and Remedial Monitoring Report No. 11" (IRAC Report) was submitted to MassDEP on November 13, 2009, and the "Immediate Response Action Completion Report Amendment" (IRAC Report Amendment) was submitted to MassDEP on April 1, 2011. The "Phase IV Final Inspection Report, Remedial Monitoring Report No. 15, and Phase V Remedy Operation Status Report," (Phase IV FIR/Phase V ROS) was submitted to MassDEP on August 4, 2011. The Site was reclassified as Tier II on August 1, 2014, and a Tier Classification Extension was submitted on May 9, 2025, as required by the December 2024 NOAF/NON and a subsequent extension of the required submission date provided by MassDEP.

The remedial action alternative (RAA) selected by the Phase III evaluation included:

1. Installing Exposure Pathway Mitigation Measures (EPMMs) to the extent feasible (e.g. vapor barrier and venting system, or sub-slab depressurization systems [SSDSs]), and recording Activity and Use Limitations (AULs) as appropriate, for residences where the soil vapor migration pathway to indoor air has been confirmed, and installing EPMMs in occupied commercial buildings to reduce chlorinated VOC concentrations in indoor air to that which constitutes a condition of No Significant Risk (NSR).

2. Continuing to operate the soil vapor extraction (SVE) system at the Property to remove compounds of potential concern (COPCs) from the vadose zone.
3. Conducting a Site-wide Monitored Natural Attenuation (MNA) program to evaluate overburden and bedrock groundwater plume concentrations over time to assess the rate of natural attenuation processes, and to confirm that groundwater concentrations of chlorinated VOCs are generally stable or decreasing.

As part of the IRA, GEI promptly assessed and implemented measures to eliminate or mitigate Critical Exposure Pathways (CEPs) based on site conditions and property access. These actions, initially part of the IRA, were evaluated further in the Phase II/III assessment and included in the recommended Comprehensive Response Action (CRA). Once the Phase IV Remedy Implementation Plan (RIP) was submitted, ongoing CEP mitigation became part of the Phase IV plan, as reflected in the IRAC Report and its Amendment. All subsequent response actions have continued under Phase IV and V.

Construction and implementation of the CRA identified in the Phase IV RIP have been completed; additional activities, such as operation and monitoring of active remedial systems, or installation of new EPMMs, are being conducted under Phase V during the pendency of the NOAF/NON, as agreed to through meetings and discussions with MassDEP in the Spring of 2025. When appropriate, portions of the Site may be closed under Partial Permanent Solution Statements (PSS), with or without Conditions. Operating the SSDS and SVE systems, together with MNA, will ultimately achieve a Permanent Solution for the Site.

GEI will continue to conduct annual operation, maintenance, and/or monitoring (OMM) activities for installed EPMMs where sufficient indoor air sampling has been conducted, and not repeat indoor air testing, to confirm continued system effectiveness. GEI also conducts groundwater sampling and analysis as part of the MNA program.

1.3. Purpose and Scope

The Site entered Phase V on August 4, 2011. In accordance with the MCP (310 CMR 40.0892), this Phase V Status Report No. 29 and RMR No. 44 includes the following information regarding the remedial actions being conducted at the Site:

- A description of the type and frequency of OMM activities.
- A description of any significant modifications made to the OMM activities since the last reporting period.
- An evaluation of the performance of the remedial action during the reporting period, including whether the remedial action is achieving remedial goals specified in the Phase IV RIP as described in 310 CMR 40.0874(3), and a description of any conditions or problems noted during the reporting period that are or may be affecting the performance of the remedial action.
- A description of the measures taken to correct any conditions or problems that may have been encountered during the reporting period.
- The name, license number, signature, and seal of the LSP.

This report covers the period from June 16, 2025, through December 15, 2025. Details of the engineering concepts, design criteria, construction plans, and specifications were previously provided to MassDEP as part of the Phase IV RIP, IRA Status Reports, RMRs, and IRA Plan Modifications and are not revisited in this report.

1.4. Public Involvement (310 CMR 40.1400)

UniFirst and GEI conducted a series of community meetings to inform property owners, residents, and City of Somerville (the City) officials about the Site. GEI provides copies of this Phase V Status Report No. 29 and RMR No. 44 to the local public document repository that was established for the Site at the Somerville Central Public Library. The Somerville Public Library has made documents available on the Internet Archive: (https://archive.org/details/somervillepubliclibrary?tab=collection&query=GEI+Consultants&sort=-date) .

This report was submitted through eDEP (Transaction No. 1975672). A draft copy of the eDEP Transmittal Form (BWSC-108) is provided in Appendix A.

Copies of property owner notification letters, including notice of sampling letters, chemical testing results letters, and other miscellaneous correspondence sent during the reporting period, are in Appendix B. A table summarizing in-person communication with residences is also in Appendix B.

2. GLX Project

2.1. Background

The Massachusetts Bay Transit Authority (MBTA), through its contractor GLX Constructors (GLXC), has completed the extension of MBTA Green Line service to Union Square in Somerville and beyond to College Avenue in Medford. The GLX Project included significant infrastructure improvements near and through the Site, including a new pump station, reconstruction of the bridge passing over Washington Street, new train tracks within the MBTA right-of-way (ROW), a new train station, and utility improvements. The MBTA, GLXC, and their contractors initiated three RTNs (3-35528, 3-34742, and 3-30620) related to construction activities undertaken at the Site.

2.2. Soil Management

The MBTA and GLXC constructed the GLX Project with a combination of a Utility-related Abatement Measure (URAM) and Release Abatement Measures (RAMs) between 2019 and 2024. Approximately 1,950 cubic yards were initially excavated and managed under a URAM for RTN 3-35528. Additional soil excavation and management was conducted under a RAM Plan for RTN 3-34742 submitted in July 2019.

TRC Environmental of Lowell, Massachusetts, on behalf of GLXC, filed nine RAM Status Reports between November 2019 and November 2023 and a RAM Completion Report in May 2024. Approximately 18,000 cubic yards of soil was disposed of off-site.

In addition to the soil managed under RTNs 3-35528 and 3-34742, approximately 5,440 cubic yards of soil were excavated from within the Site boundary as part of GLX Project activities conducted under the Special Projects Designation (SPD) for RTN 3-30620.

2.3. Construction Dewatering

Construction dewatering, groundwater treatment and discharge activities were conducted as part of the RAM. Construction dewatering, generally in Washington Street, and groundwater treatment including with granular activated carbon management was conducted between April 2019 and September 2020. More than 8 million gallons of groundwater were pumped and the PCE concentration in the dewatering influent ranged 410 to 1,660 ug/L. The dewatering effluent was treated then discharged to the Millers River through a storm drain.

3. Current Conceptual Site Model and Disposal Site Boundary

As defined in the MCP, the Conceptual Site Model (CSM) is a "dynamic framework for assessing site characteristics and risk, identifying and addressing data gaps and managing uncertainty, eliminating or controlling contaminant sources, developing and conducting response action strategies, and evaluating whether those strategies have been effective in achieving desired endpoints." (310 CMR 40.0006). GEI has developed and continued to update the CSM for the Site as appropriate based upon the investigation data documented in previous reports, including the Phase II CSA, IRA Plan and Status Reports, the Phase IV RIP, and prior Phase V ROS Status Reports. In 2014, in Phase V Status Report No. 6, GEI updated the CSM and Disposal Site Boundary to include groundwater data collected by the MBTA. In Phase V Status Report No. 17, GEI updated the CSM and Disposal Site Boundary to include a portion of the MBTA ROW near Cross Street where de minimis PCE concentrations were detected in soil samples collected for construction purposes. The current Site Boundary is shown on Fig. 3-1.

As required by the MassDEP NOAF/NON, the Phase II CSA Addendum will update the CSM, and site boundary based on the nature and extent of contamination. Site CSM will be updated.

4. Subsurface Investigation

As required by the MassDEP NOAF/NON, GEI conducted additional subsurface investigations to assess the shallow and deep bedrock conditions at the disposal site.

4.1. Boring and Monitoring Well Installation

4.1.1. Borings – September to October, December 2025

Between September 29, 2025, and October 24, 2025, GEI observed Northern Drill Services, Inc. (NDS) of Northborough, Massachusetts advance seven borings (B401D/S, B402 through B406). On December 29, 2025, GEI observed NDS advance one boring (B407), which originally could not be completed due to access issues. All the borings were vacuum excavated to a depth of approximately 5 feet. Following vacuum excavation, NDS advanced borings using drive and wash drilling techniques or using a Geoprobe and direct push methods. Borings B401D/S, and B402 through B404 were installed using drive and wash drilling techniques, and borings B405 through B407 were installed using direct push techniques. Borings were advanced to depths ranging from 14 to 90 feet below ground surface. Boring B406 encountered refusal at 14 feet. Boring B407 encountered refusal at 18 feet, and the casing encountered refusal at 14.6 feet. Boring information is summarized in Table 4-1. The locations of the borings are on Fig. 4-1.

Soil samples were continuously logged (lithology and physical observations) in accordance with the USCS guidelines. Field screening for VOCs in the jar headspace for soil samples was performed with a PID equipped with a 10.6 eV lamp. PID field screening results are summarized on the boring logs in Appendix C. Jar headspace screening results ranged from 0.0 ppm to 106.8ppm. All drill cuttings and drill water were contained in 55-gallon drums and stored on-site at 50 Tufts Street.

4.1.2. Soil Sampling

In borings B403 and B404, GEI performed oil-in-soil tests in the field to evaluate the presence of DNAPL; none of the tests indicated DNAPL in the overburden. Additionally, for B403 and B404, GEI collected three samples for laboratory analysis from the fill, water table, and overburden-bedrock interface intervals. Laboratory samples were submitted to Pace Analytical Services LLC, of Westborough, MA (Pace) for analysis of VOCs, and the results are summarized in Table 4-2. The associated lab reports are in Appendix D. Results for PCE by depth are in Fig. 4.2; the results are being evaluated as part of a larger MNA evaluation and will be discussed further in the Phase II CSA Addendum.

4.1.3. Borehole Geophysics Testing

Prior to well installation, in B403 and MW404, GEI observed Hager Richter Geoscience (HRGS) perform borehole geophysics testing which included Fluid Temperature and Fluid Conductivity/Resistivity, Optical Televiewer (OTV), Acoustic Televiewer (ATV), Caliper, Heat Pulse Flow Meter (HPFM) under ambient conditions and under pumping conditions. Draft geophysics logs were reviewed during boring and well installation to determine the well screen intervals for the deep bedrock monitoring wells. The results of the geophysics testing indicated that productive fractures were uncommon in the deep bedrock. The final geophysics logs are pending and will be included in the next Status Report.

4.1.4. Monitoring Well Installation

The eight soil borings (B401D/S, B402 through B407) were completed as 2-inch diameter polyvinyl chloride (PVC) monitoring wells (MW401D/S, MW402 through MW407). The monitoring well locations are shown on Fig. 4-1, and the well installation logs are in Appendix C. The monitoring well screen interval for each well is in Table 4-1. The wells were finished with a steel road box mounted flush with the ground surface and surrounded by a concrete pad.

Between October 24, 2025, and October 29, 2025, GEI developed monitoring wells MW401D/S and MW402 through MW406 by purging 10 well volumes of groundwater from each location. On December 30, 2025, GEI developed monitoring well MW407 by purging the well. During development, the monitoring well went dry. The well was allowed to recharge, and purged again, until sediment-free water was observed. Water purged from the monitoring wells was contained in 55-gallon steel drums and stored at 50 Tufts Street pending offsite disposal.

4.2. Groundwater Sampling

GEI conducted site wide gauging and collected groundwater samples from 41 monitoring wells in November 2025. GEI measured groundwater levels at monitoring wells shown in Table 4-3. This included the 34 monitoring wells sampled in March and April 2025 (described in Phase V Status Report No. 28 and RMR No. 43), and the seven monitoring wells installed in October 2025 (MW401S, MW401D, MW402 through MW406). Monitoring well locations and the monitoring wells sampled by GEI during this reporting period are shown in Fig. 4-1.

On January 7, 2026, GEI collected a groundwater sample from monitoring well MW407. An additional groundwater sample was also collected from MW122 at this time to supplement the investigation at this location because for the first time in more than a decade this location was sampled using EPA low-flow sampling methods. Historically, a grab sample was collected because the monitoring well drawdown exceeded the low-flow sampling guidance threshold. However, for the past two sampling events, drawdown within the monitoring well was minimal and a representative sample was able to be collected. Utility upgrades conducted in Franklin Street during September 2025 may have improved hydraulic conductivity and flow pathways of the overburden groundwater in the vicinity of MW122.

The groundwater samples were submitted to Pace for analysis of VOCs. Select groundwater samples were also submitted for chemical testing of MNA parameters. A summary of all GEI groundwater sampling activities at the Site, including dates of sampling during this reporting period, is in Table 4-4. The groundwater testing results are summarized in Table 4-5, along with groundwater data from previous investigations. The laboratory data reports associated with the November 2025 and January 2026 groundwater testing are in Appendix D.

Groundwater sampling conducted on behalf of the MBTA between 2012 and 2014 by Kleinfelder, and in 2020 by TRC, as part of the GLX Project is summarized in Table 4-6. Results from the groundwater sampling event are being evaluated as part of a larger MNA evaluation and will be discussed further in the Phase II CSA Addendum.

4.3. Drum Sampling

On November 6, 2025, GEI sampled the drummed drill cuttings and drill water/development water stored at 50 Tufts Street. Three soil samples were collected from the drummed drill cuttings and submitted to Pace for analysis of VOCs, flashpoint, and corrosivity. Four samples were collected from the drummed drill water/development water and submitted to Pace for analysis of VOCs and flashpoint. The laboratory data reports associated with the drum sampling are in Appendix D.

A total of 6 drill cutting drums and 14 drill water/development water drums remain stored at 50 Tufts Street pending offsite disposal.

4.4. Management of Waste Materials

On July 2, 2025, a total of 8 55-gallon drums were shipped off site for disposal under a uniform hazardous waste manifest to Cycle Chem, Inc. of Lewisberry, Pennsylvania. The drums contained investigation-derived waste (soil and groundwater) from previous subsurface investigations. The disposal documentation is in Appendix E.

4.5. Hydraulic Flow Data Loggers

GEI installed vented Level TROLL 500 Data Loggers in MW104R on December 27, 2023, and MW203R and SH-MW2R on April 12, 2024. GEI installed well MW104R in May 2022. The data loggers were installed to evaluate long term groundwater flow trends in this portion of the Site, which was heavily influenced by the GLX construction. GEI has downloaded the data approximately every four weeks and will continue to monitor groundwater elevations monthly. Between April 21 and May 7, 2024, the transducer in MW203R was above the height of the groundwater table; when GEI collected data on May 7, the transducer was lowered in the well. Between August 1 and 4, 2024, the transducer in MW203R was above the height of the groundwater table; however, it could not be lowered further into the well. Hydrographs for the three monitoring wells are included in Appendix F.

4.6. Further Phase V Activities

4.6.1. Groundwater Sampling

GEI is planning to conduct additional site wide groundwater sampling in the winter/spring of 2026. We will collect groundwater samples from 42 monitoring wells (from the 41 monitoring wells sampled in November 2025, and from the newly installed MW407) and each will be sampled for VOCs. Groundwater and QA/QC samples will be submitted to Pace chemical testing of VOCs.

5. Indoor Air and Soil Vapor Sampling

5.1. Soil Vapor Sampling

From January 2006 through December 15, 2025, GEI collected soil vapor samples at 59 residences and commercial buildings. Fig. 5-1 shows buildings where GEI conducted soil vapor sampling. The procedure for collecting soil vapor samples was in IRA Status Report No. 3. Samples typically were collected from below the basement slab.

During this reporting period, GEI collected sub-slab samples from the properties below:

Property	Date Sampled	Table	Purpose
11 Morton Street	July 16, 2025 August 21, 2025 August 29, 2025 December 19, 2025	5-1	EPMM Effectiveness
60 Tufts Street (Unit #1)	October 1, 2025	5-2	Closure without EPMM
60 Tufts Street (Unit #4)	October 1, 2025	5-3	Closure without EPMM
60 Tufts Street (Common Spaces)	October 1, 2025	5-4	Closure without EPMM
121 Washington Street	December 12, 2025	5-5	RAM Objective
34 Knowlton Street	December 19, 2025	5-6	EPMM Effectiveness

The sub-slab soil vapor samples were submitted to Pace for laboratory analysis by EPA Method TO-15 with the following modified list of analytes:

- 1,1-Dichloroethane
- 1,1-Dichloroethylene (1,1-DCE)
- trans-1,2-Dichloroethylene (trans-1,2-DCE)
- cis-1,2-Dichloroethylene (cis-1,2-DCE)
- 1,1,1-Trichloroethane (TCA)
- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloroethane
- Tetrachloroethylene (PCE)
- Trichloroethylene (TCE)
- Vinyl Chloride

The soil vapor sampling results are summarized on Table 5-1 through 5-6 and the laboratory data reports are in Appendix D.

5.1.1. Soil Vapor Sampling – Checklists and Methods

Sub-slab soil vapor samples were collected to evaluate the concentrations of chlorinated VOCs in soil vapor beneath the buildings. GEI collected soil vapor samples using SUMMA® canisters and regulators provided by Pace. Each canister was certified clean by the laboratory. Copies of the certifications are in Appendix D. The soil vapor samples were collected over a 1-hour period.

Flow regulators were attached to the SUMMA® canisters at the location of the testing. The laboratory-set flow regulator was then turned on, and the starting pressure and time recorded. The regulator was turned off before reaching ambient pressure, and the final pressure and time were recorded.

Sub-Slab Monitoring Point Installation Logs, Pre-Sampling Checklists, and Sub-Slab Sampling Checklists completed for the sub-slab soil vapor samples collected during this reporting period are in Appendix G.

5.1.2. 11 Morton Street

On July 16, 2025, GEI installed two sub slab soil gas monitoring points (SV1 and SV2) using Mini Vapor Pin® sampling devices in the concrete slab in the unfinished portion of the basement. Two sub-slab soil gas samples were then collected from the newly installed monitoring points. GEI collected two soil vapor samples from beneath the building slab on July 16, 2025, August 21, 2025, August 29, 2025, and December 19, 2025, from these points.

Concentrations of PCE, TCE, and TCA were detected above laboratory reporting limits but below the applicable residential sub slab soil gas Screening Values (SSGSV) in all samples. Concentrations of vinyl chloride were also detected above laboratory reporting limits but below the applicable residential SSGSV in the July 2025 samples.

5.1.3. 60 Tufts Street

On October 1, 2025, six soil vapor samples from previously installed sub-slab monitoring points were collected from beneath the building slab. One sample was collected within Unit #1, one sample from Unit #4, and four samples from common space areas. At least one week prior to collecting the soil vapor samples the venting system fan was turned off and the vent was closed to simulate conditions in the absence of active or passive venting.

Concentrations of 1,1-Dichloroethane (1,1-DCA), 1,1-DCE, trans-1,2-DCE, and TCE were detected above laboratory reporting limits but below applicable residential SSGSV in Unit #1, while PCE and TCA were detected above the applicable residential SSGSV in Unit #1.

Concentrations of PCE, TCE, and TCA were detected above laboratory reporting limits but below applicable residential SSGSV in Unit #4.

Concentrations of 1,1-DCA and cis-1,2-DCE were detected above laboratory reporting limits but below applicable residential SSGSV in at least one sample from the common spaces, while 1,1-DCE, PCE, TCA, and TCE were detected above the applicable residential SSGSV in at least one sample from the common spaces.

An additional round of soil vapor sampling from the same six monitoring points was conducted on January 8, 2026, with the system fan not operating and the vents closed. The results of the sampling are pending and will be included in a future submittal.

5.1.4. 121 Washington Street

On December 12, 2025, GEI installed two sub-slab monitoring points using Vapor Pin® sampling devices on the first floor (slab-on-grade). Two sub-slab soil gas samples were then collected from the newly installed monitoring points. Concentrations of PCE, TCE, and TCA were detected above laboratory reporting limits but below applicable residential SSGSV in at least one sample.

5.1.5. 34 Knowlton Street

On December 19, 2025, one soil vapor sample was collected from the sample port installed on the riser pipe of the sub-slab passive venting system. A sample was collected from the riser pipe and not from a sub-slab monitoring point because the homeowner did not agree to have a sub-slab monitoring point installed. Concentrations of PCE and trans-1,2-DCE were detected above laboratory reporting limits but below applicable residential SSGSV in the sample.

5.2. Indoor Air Sampling

From January 2006 through December 15, 2025, GEI collected indoor air samples at 76 residences and commercial buildings. Fig. 5-1 shows buildings where GEI conducted indoor air sampling. The procedure for collecting indoor air samples was included in IRA Status Report No. 3. Samples are typically collected from the basement and first floor of each building.

In the NOAF/NON, MassDEP required 2 rounds of indoor air sampling at 9 properties where passive EPMMs have been installed (91 and 93 Franklin Street; 166-168 Glen Street, 17, 32, and 34 Knowlton Street; 4, 11, and 19-19A Morton Street).[2] During the previous reporting period, we obtained access to 7 of the 8 properties to conduct the first round of sampling; however, we could not obtain access to 4 Morton Street. During the current reporting period, we obtained access to 5 of the 8 properties for a second round of sampling. We could not obtain access to 17 Knowlton Street, 166-168 Glen Street, or 4 Morton Street; we will continue to attempt to gain access to these properties during the 2026 heating season.

The NOAF/NON also required indoor air testing at seven properties within the Site boundaries for which owners historically refused mitigation systems, The seven properties identified: 99 Franklin Street, 162-164 Glenn Street, 9 Tufts Street, 11-13 Tufts Street, 17 Tufts Street, 19 Tufts Street, and 25 Tufts Street. We have reached out to the properties owners to arrange access for indoor air testing. To date we have obtained access at 19 Tufts Street, 11-13 Tufts Street and 162-164 Glen Street and will be conducting indoor air testing in January 2026. We are continuing to attempt to obtain access at the other properties.

During this reporting period, GEI collected indoor air samples from the properties listed in the table below:

Property	Date(s) Sampled	Table	EPMM	Purpose	Requested by MassDEP	Condition of NSR
11 Morton Street	July 16, 2025 August 21, 2025 August 29, 2025 December 19, 2025	5-7	Passive	Investigation Investigation Investigation EPMM Effectiveness	yes	Yes
60 Tufts Street Unit #1	October 1, 2025	5-8	Active	Closure without EPMM	--	Yes
60 Tufts Street Unit #4	October 1, 2025	5-9	Active	Closure without EPMM	--	Yes
60 Tufts Street Common Spaces	October 1, 2025	5-10	Active	Closure without EPMM	--	Yes

[2] This should have been identified as 8 buildings, not 9, because 91 and 93 Franklin Street are a single building.

Property	Date(s) Sampled	Table	EPMM	Purpose	Requested by MassDEP	Condition of NSR
19-19A Morton Street	December 19, 2025	5-11	Passive	EPMM Effectiveness	yes	Yes
91-93 Franklin Street	December 19, 2025	5-12	Passive	EPMM Effectiveness	yes	Yes
32 Knowlton Street	December 19, 2025	5-13	Passive	EPMM Effectiveness	yes	Yes
34 Knowlton Street	December 19, 2025	5-14	Passive	EPMM Effectiveness	yes	Yes

The indoor air samples were submitted to Pace for laboratory analysis by EPA Method TO-15 with the following modified list of analytes:

- 1,1-Dichloroethane
- 1,1-Dichloroethylene (1,1-DCE)
- trans-1,2-Dichloroethylene (trans-1,2-DCE)
- cis-1,2-Dichloroethylene (cis-1,2-DCE)
- 1,1,1-Trichloroethane (TCA)
- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloroethane
- Tetrachloroethylene (PCE)
- Trichloroethylene (TCE)
- Vinyl Chloride

The indoor air sampling results are summarized in Table 5-7 through 5-14 and the laboratory data reports are in Appendix D.

5.2.1. Indoor Air Sampling – Checklists and Methods

The indoor air samples were collected to evaluate if there was likely a complete vapor intrusion pathway in the buildings' occupied space. The samples were collected using SUMMA® canisters and regulators provided by Pace. Each canister was certified clean by the laboratory. Copies of the certifications are in Appendix D. The indoor air samples were collected over an approximately 24-hour period.

Flow regulators were attached to the SUMMA® canisters at the location of the testing. The SUMMA® canisters were placed so that the air inlet was approximately 3 to 5 feet above the floor. The laboratory-set flow regulator was then turned on, and the starting pressure and time were recorded. The regulator was turned off before reaching ambient pressure, and the final pressure and time were recorded. Pre-Sampling Checklists and Indoor Air Sampling Checklists completed for each indoor air sample collected during this reporting period are in Appendix G.

5.2.2. 11 Morton Street

5.2.2.1. Potential Imminent Hazard Notification

GEI conducted indoor air sampling at 11 Morton Street in April, May, and July 2025, as well as sub-slab soil gas sampling in July 2025, in response to the NOAF/NON. TCE was detected in the indoor air on the first floor during each sampling event (April [1.05 µg/m³], May [2.77 µg/m³] and July [8.65 µg/m³]. The July result exceeded the Imminent Hazard (IH) threshold. Although it was believed that the TCE was not associated with the 50 Tufts Street disposal site, GEI reported the potential IH to MassDEP on July 28, 2025; MassDEP assigned RTN 3-52237 to the release. GEI installed air purifying units as a precaution while investigating possible sources. The APUs were installed on the first floor and in the finished portion of the basement on July 29, 2025, and August 6, 2025, respectively. A copy of the original Release Notification Form is in Appendix H.

GEI identified various art supplies and cleaning products, including spray fixatives known to potentially contain TCE, during a chemical inventory at 11 Morton Street. To minimize confounding sources of TCE in indoor air testing, on July 31, 2025, these materials were temporarily removed from the residence and stored outdoors in sealed containers before further sampling.

5.2.2.2. Indoor Air Testing – August 2025

On August 21, 2025, after removal of the suspect painting products and supplies, while the APUs were running, one indoor air sample was collected on the first floor, and two indoor air samples were collected in the basement (one in the finished portion and one in the unfinished portion). TCE was detected in indoor air at a concentration of 0.989 µg/m^3 on the first floor, 0.215 µg/m^3 in the basement's finished side and 0.124 µg/m^3 on the unfinished side. No other chlorinated VOCs were detected above laboratory reporting limits.

On August 29, 2025, after the APUs had been shut off for at least one week, one indoor air sample was collected on the first floor, and two from the basement (one each from the finished and unfinished areas). TCE was detected at a concentration of 6.56 µg/m^3 on the first floor, 4.11 µg/m^3 in the basement's finished side and 1.21 µg/m^3 on the unfinished side. PCE was not detected above laboratory limits in any samples. Trans-1,2-DCE was detected above laboratory reporting limits on the basement's finished side.

5.2.2.3. Notification Retraction –September 2025

GEI retracted the retract the IH notification made by the UniFirst Corporation regarding 11 Morton Street in a submittal on September 24, 2025. The retraction was submitted because additional information was obtained that substantiates that a Site-related release, as defined by the MCP, did not actually occur. The additional information included indoor air and sub-slab soil vapor testing (Section 5.1.2.1), confounding sources linked to the art supplies in the residence and Draeger-Tube® testing of the supplies, a vapor mitigation system, TCE concentration gradients and historical TCE concentrations at the property. A copy of the Notification Retraction letter for RTN 3-52237 is in Appendix H.

5.2.2.4. Indoor Air Sampling – December 2025

In accordance with the NOAF/NON sampling requirements, indoor air samples were collected during the heating season on December 19, 2025. The APUs were not running. One indoor air sample was collected on the first floor, and two from the basement (one each from the finished and unfinished areas). Concentrations of TCE were detected above laboratory reporting limits on limits on both the first floor and the finished side of the basement; however, since professional art supplies remain stored in the home, these TCE detections are attributed to other sources and are not associated with the disposal site. PCE was also detected above laboratory reporting limits in the basement's finished side, but at a concentration that poses a condition of NSR. No chlorinated VOCs were detected above laboratory reporting limits in the basement's unfinished side.

5.2.3. 60 Tufts Street

On October 1, 2025, seven indoor air samples were collected from the 60 Tufts Street building. One sample was collected from Unit #1 (which is located on the lowest floor), two samples from Unit #4 (one from the upper portion of the Unit, and one from the basement), and four samples from the lowest floor/basement common spaces. At least one week prior to collecting the soil vapor samples the venting system fan was turned off and the vent was closed to simulate conditions in the absence of active or passive venting.

- Concentrations of PCE, TCA, and TCE were detected above laboratory reporting limits in Unit #1.
- Concentrations of PCE were detected above laboratory reporting limits in both samples Unit #4. Concentrations of TCA were detected above laboratory reporting limits in the upper floor of Unit #4.
- Concentrations of PCE, TCA, and TCE were detected above laboratory reporting limits in two of the four samples collected in the common spaces.

The concentrations of the chlorinated VOCs in Unit #1, Unit #4, and in the common spaces pose a condition of NSR.

An additional round of indoor air sampling from the same seven locations was conducted on January 8, 2026, with the system fan not operating and the vents closed. The results of the sampling are pending and will be included in a future submittal.

5.2.4. 91-93 Franklin Street

In accordance with the NOAF/NON sampling requirements, a second round of indoor air sampling was conducted during the heating season on December 19, 2025. One indoor air sample was collected in the basement, and two samples on the first floor, one in each of the units (91 Franklin Street and 93 Franklin Street). Concentrations of PCE were detected above the laboratory reporting limits in all three samples, but at a concentration that poses a condition of NSR. No other chlorinated VOCs were detected above laboratory reporting limits.

5.2.5. 32 Knowlton Street

In accordance with the NOAF/NON sampling requirements, a second round of indoor air sampling was conducted during the heating season on December 19, 2025. One indoor air sample was collected from the basement and the first floor. PCE was detected at the reporting limit in the basement sample. No other chlorinated VOCs were detected above laboratory reporting limits. Therefore, the concentrations of chlorinated VOCs pose a condition of NSR.

5.2.6. 34 Knowlton Street

In accordance with the NOAF/NON sampling requirements, a second round of indoor air sampling was conducted during the heating season on December 19, 2025. One indoor air sample was collected from the basement and the first floor. Concentrations of trans-1,2-DCE were detected above the reporting

limit in both samples, but at concentrations that pose a condition of NSR. No other chlorinated VOCs were detected above laboratory reporting limits.

5.2.7. 19-19A Morton Street

In accordance with the NOAF/NON sampling requirements, a second round of indoor air sampling was conducted during the heating season on December 19, 2025. One indoor air sample was collected from the basement and the first floor. Chlorinated VOCs were not detected above laboratory reporting limits in either sample. Therefore, the concentrations of chlorinated VOCs pose a condition of NSR.

5.3. Meteorological Conditions

Measurements were taken with a portable barometer and thermometer during soil vapor sampling at and were recorded on the Indoor Air and Sub-Slab Sampling Checklists (Appendix G). Meteorological conditions recorded during indoor air sampling events for this reporting period are summarized in Table 5-15.

6. Capuano Center

6.1. Background

The mitigation system at the Capuano Center is an SSDS with 18 sub-slab extraction points in six classrooms of the east wing. The interior slab/exterior wall joints of the six classrooms were sealed with a flexible epoxy sealant and extraction points were installed horizontally through the exterior wall. GEI began operating the SSDS on February 1, 2007.

The system sub-slab vapor extraction points are attached to three collection headers in exterior underground trenches, which are connected to three dedicated discharge pipes with radon fans for each collection header above the roofline of the Capuano Center. Remote telemetry on the system consists of two radio nodes and three pressure switches connected to the three radon fans to send notification of a system shut down remotely to the wireless remote monitoring hub located at the Property.

The system does not include off-gas treatment. Based upon the measured flow rate and VOC concentrations, the annual discharge rate of VOCs from the system has been significantly less than 100 lbs per year; therefore, off-gas treatment is not required per MassDEP Policy No. WSC-25-150: "Off-gas Treatment of Point-Source Remedial Air Emissions," revised July 28, 2025.

6.2. Remedial Objectives

The design objectives of the Capuano Center mitigation system were to:

- Eliminate or mitigate, to the extent feasible, the potential soil vapor migration pathway to indoor air.
- Achieve a condition of NSR for occupants of the Capuano Center.

The SSDS monitoring data show that the sub-slab vacuum field generated by the SSDS influences the southern portion of the east wing. In conjunction with the physical sealing of the slab/wall joint, this indicates the soil vapor migration pathway to indoor air is controlled by the system.

6.3. Inspection and Monitoring

The system has been monitored in accordance with the requirements and schedule in the Phase IV RIP, and in accordance with the requirements and schedule presented in subsequent Phase IV Status Reports, and the Phase IV FIR/Phase V ROS.

Monitoring of the system was historically performed monthly; however, once telemetry was installed on the system, GEI began performing quarterly monitoring in July 2015. Monitoring of system parameters at the headers (flow rate, vacuum, and photoionization detector [PID] readings) and PID readings at outdoor monitoring points are conducted quarterly. Inspection and monitoring at the Capuano Center were performed twice from June 2025 to December 2025. A summary of monitoring activities conducted during this reporting period is in Table 6-1 and the Field Monitoring Forms are in Appendix I.

6.4. System Modifications

No system modifications were made during the reporting period.

6.5. Performance Efficiency and Effectiveness

GEI has completed 24 rounds of indoor air sampling in the Capuano Center. The results of each round of sampling show that the system is meeting remedial design objectives (Table 6-2). Based on the indoor air testing results, and regularly collected system performance data, the soil vapor migration pathway to indoor air has been eliminated and a condition of NSR has been achieved for occupants of the Capuano Center. GEI has discontinued indoor air sampling and relies on monitoring of operating parameters for the system to confirm continued effectiveness.

6.6. Management of Waste Materials

No waste materials were managed at the Capuano Center during this reporting period.

6.7. Future Phase V Activities

Based on indoor air testing results, a condition of NSR has been achieved for occupants of the Capuano Center and the system is achieving the remedial design objectives. Since remote telemetry is now installed on the system, GEI will continue to monitor operational parameters and sub-slab conditions for the system (e.g., flow rate, vacuum), and collect readings from all outdoor monitoring points quarterly, to confirm ongoing system performance. GEI discontinued monitoring at interior monitoring points in April 2016 and instead relies on vacuum monitoring at exterior monitoring points to evaluate system effectiveness. During monitoring events, GEI will also perform maintenance tasks, which may include draining accumulated water from the collection headers and correcting any issues observed during routine inspection of system components.

6.7.1. Longest Allowable Duration of AEPMM Shutdown

An operating regime and OMM plan for the Capuano Center AEPMM were included in the Phase IV FIR/Phase V ROS submitted on August 4, 2011. In accordance with the MCP (310 CMR 40.1026[3][e]), and as presented in Status Report No. 7 and RMR No. 22, the longest duration of a shutdown that would be consistent with a level of exposure that does not pose an IH and that poses NSR is 6 years for the Capuano Center system.

6.7.2. Regulatory Closure

A Permanent Solution with Conditions can be achieved for properties where an AEPMM has achieved the remedial objectives, an AUL has been recorded for the property, and telemetry is installed. A Partial Permanent Solution with Conditions Statement may be submitted to achieve regulatory closure for the Capuano Center if the owner of the property, the City of Somerville, executes an AUL.

7. Residential and Commercial Properties

7.1. 103 and 105 Washington Street

The properties at 103 and 105 Washington Street have been redeveloped into mixed-use commercial and residential buildings by the same entity without the installation of an EPMM and GEI has been evaluating the likelihood of a complete vapor intrusion pathway.

7.1.1. 103 Washington Street

The building at 103 Washington Street, formerly an automobile repair shop, was demolished around March 2019. The former AEPMM was deactivated in May 2017 when the building was vacated. 103 Washington Street has been redeveloped as a mixed-use development with commercial space and open-air parking on the first floor and residential units above. GEI reached out numerous times to the developer regarding installing a vapor mitigation system at 103 Washington Street. The developer did not agree to installation of a system, although they did consent to soil gas and indoor air testing. As of February 2024, construction was complete, and the building occupied. GEI has conducted indoor air and sub-slab soil vapor sampling in May 2023, July 2023, March 2024, December 2024, and February 2025. Based on the results of the sampling and a Method 3 Risk Characterization, GEI prepared and submitted to MassDEP a Partial Permanent Solution with No Conditions Statement in June 2025.

7.1.2. 105 Washington Street

The building at 105 Washington Street, formerly a multi-family house, was demolished between March and June 2019 and construction on the development began in July 2019. As of June 2022, construction was completed, and the building is occupied. 105 Washington Street is a mixed-use development with commercial space and open-air parking on the first floor and residential units above. GEI has conducted indoor air and sub-slab soil vapor sampling in August 2021, March 2022, February 2023, May 2023, December 2024, and February 2025. Based on the results of the sampling, GEI will prepare a Partial Permanent Solution Statement for the Property.

7.2. EPMM Status

Through December 15, 2025, EPMMs have been installed at 24 residential and commercial properties. Currently EPMMs are relied upon to meet the remedial objectives at 20 properties and are not being relied on at the following:

- The EPMM at 103 Washington Street, as discussed in Section 7.1.1, was abandoned when the building was vacated and then demolished as part of redevelopment. The redevelopment of the mixed-use building at 103 Washington Street did not include an EPMM because the new owner declined offers to include one.
- An EPMM was installed at 163 Glen Street when the former American Legion Post building was redeveloped as multi-family housing. It was later demonstrated that the EPMM was not required based on sub-slab soil gas sampling results that were below residential SSGSV.

- The EPMM at 10 Morton Street was temporarily removed during building renovation activities. A new EPMM has since been installed, as discussed in Section 7.5.1.1.
- An EPMM has been installed at 121 Washington Street, a new mixed-use building with retail space on the ground floor and residences above, although interior building construction is still ongoing, as discussed in Section 7.5.1.3.

Fig. 7-1 shows the buildings with EPMMs installed. Table 7-1 presents the as-built design information for each installed EPMM. EPMMs were also installed at 50 Tufts Street, 60 Tufts Street, and the Capuano Center. The EPMMs at 50 Tufts Street, 60 Tufts Street, and the Capuano Center are discussed separately in this report.

The EPMM designs are categorized as Option 1, Option 2, Option 3, or Option 4, as conceptually defined below:

- Option 1 – SSDS: This option includes the installation of one or more sub-slab vapor extraction points and a collection piping network connected to an electric fan located outside the building envelope. The fan is equipped with a condensate bypass drain and the fan exhaust is discharged above the eave line of the roof. To date, no SSDSs (except for the system at the Property) require off-gas treatment. This option is installed in buildings with adequate sub-slab air flow and a competent concrete slab, or those properties where vapor barrier and venting systems are infeasible.
- Option 2 – Vapor Trench: The vapor trench option is a sub-slab venting system installed in a shallow trench around the interior basement perimeter, cement stucco applied to the walls, and an epoxy vapor barrier applied to the slab and stucco walls. The trench is backfilled with crushed stone and finished with approximately three inches of new concrete to meet the existing slab surface. This option is installed in buildings with poor sub-slab air flow, a competent concrete slab, and a fieldstone and/or brick foundation. Sub-slab vapors are vented through a piping network that exits the building envelope at the sill elevation and terminates above the eave line of the roof.
- Option 3 – New Slab: The new slab installation option is a new concrete slab, a sub-slab vapor barrier, and a floor venting system; applying cement stucco to the walls; and applying an epoxy vapor barrier to the new slab and stucco walls. This option is installed in buildings with poor sub-slab air flow, an incompetent concrete slab, and a fieldstone and/or brick foundation. As with Option 2, sub-slab vapors are vented through a piping network that exits the building envelope at the sill elevation and terminates above the eave line of the roof.
- Option 4 – Passive Vapor Mitigation in New Construction: This option has been installed in new construction of buildings. A sub-slab venting system installed in gravel with riser pipes through the roof, a sub-slab vapor barrier, and new concrete floor. This option can be converted to an active system.

The decision-making process for selecting a conceptual design based on Site-specific conditions is illustrated in Fig. 7-2. Table 7-1 identifies the design option for each EPMM currently installed and the primary engineering components of each.

7.2.1. Remedial Objectives

The design objectives of the EPMMs were to:

- Eliminate or mitigate, to the extent feasible, the potential soil vapor migration pathway to indoor air in residential buildings.
- Achieve a condition of NSR for occupants of the residence or commercial building.

7.3. Option 1 EPMMs (SSDS)

Option 1 EPMMs consist of active sub-slab depressurization achieved by the installation of a radon fan and associated network of piping. Several of the Option 1 EPMMs were originally installed as Option 2 or Option 3 EPMMs; however, the concentrations of PCE measured in the post-installation indoor air did not constitute a condition of NSR, and a fan was installed. Option 1 EPMMs are installed at the following 9 properties:

- 35-37 Knowlton Street
- 31-33 Knowlton Street
- 13 Morton Street
- 18 Morton Street
- 23 Tufts Street
- 95 Franklin Street
- 9 Knowlton Street
- 13 Knowlton Street
- 27 Tufts Street

Prior to the MCP amendments effective June 20, 2014, these properties could not achieve a Permanent Solution because of the operation of an active system. These properties can now achieve regulatory closure with a Partial PSS with Conditions, provided that the property owner executes an AUL. The condition associated with the PSS would be operation and maintenance of the AEPMM in accordance with the AUL.

7.3.1. Operation and Monitoring

To confirm the performance of an EPMM, indoor air samples are collected shortly after installation is complete. As identified in the Phase IV FIR/Phase V ROS for Option 1 EPMMs, following the initial post-installation indoor air sampling, indoor air samples were collected one time per winter for two consecutive years. In accordance with MassDEP guidance, "WSC No. 16-435: Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure," dated October 14, 2016 (2016 VI Guidance), GEI modified the post-installation indoor air sampling for newly installed Option 1 EPMMs to demonstrate effectiveness. Once a pressure differential has been established, one round of indoor air sampling is performed during the heating season. The samples are analyzed for Site-specific chlorinated VOCs. Following one round of indoor air sampling, differential pressure across the slab will be used to demonstrate system effectiveness.

Inspection and monitoring also includes measuring VOCs at sub-slab sampling points with a PID, collecting pressure measurements using a manometer, and inspecting system components. If needed, repairs or modifications will be scheduled.

A summary of OMM activities performed for Option 1 EPMMs during this reporting period is in Table 7-2. During this reporting period GEI conducted EPMM inspections at 13 Morton Street and 18 Morton Street. GEI was unable to coordinate access for the other properties with Option 1 EPMMs during the reporting period. GEI will continue its attempts to obtain access for EPMM inspections at these properties during the next reporting period. The EPMM Inspection Forms are in Appendix J.

7.3.2. EPMM Shutdown

At the request of the property owners at 9 Knowlton Street and 13 Knowlton Street, GEI is evaluating if the operation of the Option 1 EPMMs are required to maintain a condition of NSR.

7.3.2.1. AEPMM Closure Testing at 9 Knowlton Street

On May 11, 2022, a shutdown valve was installed on the SSDS riser pipe at 9 Knowlton Street. To simulate conditions without operation of the AEPMM, the SSDS fan was turned off and the shutdown valve was closed, for six weeks, prior to collecting soil vapor and indoor air samples in June 2022. The SSDS fan was turned off and the shutdown valve was closed, for one week, prior to collecting additional rounds of soil vapor and indoor air samples in January and March 2023.

After the indoor air and soil vapor sampling was completed, the shutdown valve was opened, and GEI requested that the owner reactivate the fan. Based on the results of the Option 1 EPMM closure sampling, GEI will evaluate the need for an AEPMM to achieve a condition of NSR at 9 Knowlton Street based on a Method 3 Risk Characterization.

7.3.2.2. AEPMM Closure Testing at 13 Knowlton Street

On November 1, 2016, a shutdown valve was installed on the SSDS riser pipe at 13 Knowlton Street. To simulate conditions without operation of the AEPMM, the SSDS fan was turned off and the shutdown valve was closed, for one week, prior to collecting soil vapor and indoor air samples in December 2016, February 2018, March and November 2019, and January 2023.

After the indoor air and soil vapor sampling was completed, the shutdown valve was opened, and the fan was reactivated. Based on the results of the Option 1 EPMM closure sampling, GEI will evaluate the need for an AEPMM to achieve a condition of NSR at 13 Knowlton Street based on a Method 3 Risk Characterization.

7.3.3. Longest Allowable Duration of AEPMM Shutdown

An operating regime for residential AEPMMs was included in the Phase IV FIR/Phase V ROS submitted on August 4, 2011, which included an OMM plan for the systems. In accordance with the MCP (310 CMR 40.1026[3][f]), and as presented in Status Report No. 7 and RMR No. 22, the following exposure durations were calculated for Option 1 EPMMs where pre-EPMM indoor air data were available:

- 13 Knowlton Street: 54 years
- 23 Tufts Street: 11 years
- 27 Tufts Street: 25 years
- 31-33 Knowlton Street: 31 years
- 35-37 Knowlton Street: 4 years

Several Option 1 EPMMs were installed based on sub-slab soil vapor results, and pre-EPMM indoor air data are not available (including 13 Morton Street, 18 Morton Street, 95 Franklin Street, and 9 Knowlton Street). However, based on the proximity of the AEPMMs throughout the Site, the shutdown exposure durations calculated for the properties with pre-AEPMM indoor air data are likely representative of the AEPMM properties with no pre-AEPMM indoor air data. Therefore, the longest duration of shutdown that would be consistent with a level of exposure that does not pose an IH and that poses NSR at these properties is likely between 4 and 54 years.

7.3.4. Efficiency and Effectiveness

The remedial objectives of the EPEMs were defined in the Phase IV:

- Eliminate or mitigate, to the extent feasible, the potential soil vapor exposure pathway to indoor air.
- Achieve a condition of NSR for occupants of the residence or commercial building.

Through December 15, 2025, the results of post-EPMM installation indoor air sampling and monitoring indicate that each of the Option 1 EPMMs installed or activated at residential and commercial properties has achieved the remedial objectives.

7.3.5. System Maintenance and Modifications

In October 2025, the radio node was replaced at 35-37 Knowlton Street after building exterior renovations were complete.

GEI has been evaluating the current telemetry system in consideration of the 2024 MCP amendments. The 2024 amendments include continual monitoring of system vacuum. However, GEI understands that properties where telemetry systems are already registered with MassDEP will be grandfathered in (310 CMR 40.1026[3][d][6], effective March 1, 2024), are not required to report system vacuum.

If a property is to be closed with a Partial Permanent Solution with Conditions requiring an AUL, hardware changes at residences will be necessary, including replacing the radio node on the exterior of the house and replacing vacuum pressure switches with vacuum pressure transducers in the basement of each residence. These modifications will require GEI to access the interior of residences. Should this option be selected for closure in the future, GEI will coordinate with property owners at that time to perform the required system modifications.

7.3.6. Management of Waste Materials

No waste materials associated with Option 1 EPMMs were generated during the reporting period.

7.4. Option 2 and 3 EPMMs (Vapor Trench and/or New Slab)

Option 2 and 3 EPMMs consist of passive vapor mitigation and do not require mechanical operation or maintenance. Option 2 or 3 EPMMs have been installed at the following 9 properties:

- 95R Franklin Street (Option 2)
- 12 Morton Street (Option 3)
- 11 Morton Street (Option 2)
- 4 Morton Street (Option 3)
- 91-93 Franklin Street (Option 3)
- 17 Knowlton Street (Option 3)
- 32 Knowlton Street (Option 3)
- 19-19A Morton Street (Option 3)
- 166-168 Glen Street (Option 3)

In accordance with the MCP (310 CMR 40.1000) prior to the June 20, 2014, MCP amendments, regulatory closure was achieved with a Class A-3 Response Action Outcome Partial (RAO-P) Statement for several properties with an Option 2 or 3 EPMM. The properties that have achieved a Class A-3 RAO-P are presented in Fig. 7-3. In the amended MCP, the term "Response Action Outcome" has been replaced with "Permanent or Temporary Solution." Subsequent regulatory closure for individual properties with Option 2 or 3 EPMMs will be achieved with Partial PSSs with Conditions. The condition associated with the PSSs with Conditions will be maintenance of the passive EPMM in accordance with an AUL.

7.4.1. Operation and Monitoring

To confirm the performance of an EPMM, indoor air samples were collected shortly after installation was completed. As identified in the Phase IV FIR/Phase V ROS for Option 2 and 3 EPMMs, following the initial post-installation indoor air sampling, indoor air samples were collected two times per year (including one winter sample) for two consecutive years. Samples were analyzed for Site-specific chlorinated VOCs.

Following the completion of post-installation indoor air sampling, annual inspection is conducted including inspecting system components. If needed, repairs or modifications are scheduled.

A summary of OMM activities performed for Option 2 and 3 EPMMs during this reporting period is in Table 7-2. During this reporting period GEI conducted EPMM inspections at 91-93 Franklin Street, 32 Knowlton Street, 11 Morton Street, 12 Morton Street, and 19-19A Morton Street. GEI was unable to access 17 Knowlton Street, 166-168 Glen Street, 4 Morton Street, and 95R Franklin Street during the reporting period. GEI will continue its attempts to obtain access for EPMM inspections at these properties during the next reporting period. The EPMM Inspection Forms are in Appendix J.

Additionally, GEI collected indoor air samples from Option 2 and Option 3 residences during this reporting period including: 91-93 Franklin Street, 32 Knowlton Street, 11 Morton Street, and 19-19A Morton Street as described in Section 5.2.

7.4.2. Efficiency and Effectiveness

The remedial objectives of the EPEMs were defined the Phase IV:

- Eliminate or mitigate, to the extent feasible, the potential soil vapor exposure pathway to indoor air.
- Achieve a condition of NSR for occupants of the residence or commercial building.

Through December 15, 2025, the results of post-EPMM installation indoor air sampling indicate that the Option 2 or 3 EPMMs currently installed at residential properties have achieved the remedial objectives.

7.4.3. System Maintenance and Modifications

No modifications were made to systems during the reporting period.

7.4.4. Management of Waste Materials

No waste materials associated with Option 2 or 3 EPMMs were generated during the reporting period.

7.5. Option 4 EPMMs (Passive Vapor Mitigation in New Construction)

Option 4 EPMMs consist of passive vapor mitigation installed in renovation or new construction and do not require mechanical operation or maintenance. Option 4 EPMMs have been installed at the following properties:

- 10 Morton Street (previously Option 3)
- 163 Glen Street (demonstrated to be not required)
- 34 Knowlton Street (previously listed under Option 3)
- 31 Tufts Street
- 121 Washington Street

An EPMM was installed at 163 Glen Street when the former American Legion Post building was redeveloped as multifamily housing. It was demonstrated that the EPMM was not required based on sub slab soil gas sampling results that were below residential SSGSV. A PPPS without Conditions was prepared for 163 Glen Street in January 2021.

Regulatory closure for individual properties with Option 4 EPMMs will be achieved with Partial PSS with Conditions. The condition associated with the PSSs with Conditions will be maintenance of the passive EPMM in accordance with an AUL.

7.5.1. Operation and Monitoring

To confirm the performance of an EPMM, indoor air samples are collected shortly after installation is complete. Option 4 EPMMs have been conducted as RAMs, and post-installation indoor air sampling for newly installed Option 4 EPMMs to demonstrate effectiveness has been conducted in accordance with MassDEP 2016 VI Guidance:

- If groundwater concentrations are less than two times the Method 1 GW-2 standard, and sub-slab soil gas concentrations are less than two times soil gas screening values, and indoor air concentrations are less than two times threshold values (TVs), GEI performs 2 rounds of indoor air sampling, with one round occurring during the heating season.
- If groundwater concentrations are greater than two times the Method 1 GW-2 standard, and/or sub-slab soil gas concentrations are greater than two times soil gas screening values, and/or indoor air concentrations are greater than two times TVs, GEI performs quarterly indoor air sampling, with two rounds occurring during the heating season.

Additional indoor air sampling beyond the first year may be performed based on property-specific conditions. Samples will be analyzed for Site-specific chlorinated VOCs. During indoor air sampling, the condition of the EPMM will be inspected and, if needed, repairs or modifications will be scheduled.

Following the completion of post-installation indoor air sampling, annual inspection includes inspecting system components. If needed, repairs or modifications will be scheduled.

A summary of OMM activities performed for Option 4 EPMMs during this reporting period is presented in Table 7-2. During this reporting period GEI conducted EPMM inspections at 34 Knowlton Street. The EPMM Inspections at 10 Morton Street, 31 Tufts Street, and 121 Washington Street will be conducted during the next reporting period. The EPMM Inspection Forms are in Appendix J.

Additionally, GEI conducted indoor air testing at 34 Knowlton Street during this reporting period as described in Section 5.2.

7.5.1.1. 10 Morton Street Renovation

In early 2023, GEI learned that 10 Morton Street had been sold and the new owners planned to renovate the basement. To determine if the existing EPMM beneath the slab was still needed, four soil vapor points were installed and sampled in March and April 2023. GEI submitted a RAM Plan in June 2023 to address the proposed property changes and later modified the plan in November 2023 to include installation of a sub-slab venting system and a vapor barrier as part of the renovations. Post-installation testing is planned to assess the ongoing need for the EPMM and an AUL to maintain a condition of NSR. The RAM Status Reports document details of system installation, testing, and sampling activities.

7.5.1.2. 31 Tufts Street

The property at 31 Tufts Street, formerly a paved parking lot, has been redeveloped as multi-family housing. 31 Tufts Street LLC and Tufts Glen Pocket Park LLC are currently joint owners of the property. MassDEP assigned RTN 3-37468 to the 31 Tufts Street property based on concentrations of polycyclic aromatic hydrocarbons (PAHs) and metals exceeding the applicable MassDEP reportable concentrations in soil (RCS-1) standards. These conditions are not attributable to the 50 Tufts Street Site. GEI submitted a RAM Plan on behalf of the owner for response actions in connection with construction, including soil management and installation of a vapor barrier and a sub-slab ventilation piping network beneath the building. In December 2023, GEI submitted a RAM Completion Report and Permanent Solution Statement for RTN 3-37468.

To date, GEI has conducted four rounds of sub-slab soil vapor and indoor air sampling. We are continuing to conduct sub-slab soil vapor and indoor air testing to evaluate if the EPMM is required.

7.5.1.3. 121 Washington Street

The property at 121 Washington Street is being redeveloped into a mixed used building with commercial space on the first floor and residential apartment units above. The small commercial building on the site was demolished in October 2020. GEI submitted a RAM Plan on behalf of the owner (Wooden Teeth, LLC) in March 2024 which included installing a vapor barrier and sub-slab ventilation system. The EPMM was completed by December 2024 with the system riser piping extending through the roof of the building. As of June 2025, the building envelope is complete and interior work continues. The RAM Status Reports document details of system installation, testing, and sampling activities.

7.5.2. Efficiency and Effectiveness

The remedial objectives of the EPEMs were defined the Phase IV:

- Eliminate or mitigate, to the extent feasible, the potential soil vapor exposure pathway to indoor air.
- Achieve a condition of NSR for occupants of the residence or commercial building.

Through December 15, 2025, the results of post-EPMM installation indoor air sampling indicate that the Option 4 EPMMs currently installed at residential properties have achieved the remedial objectives.

7.5.3. System Maintenance and Modifications

No modifications were made to the systems during the reporting period.

7.5.4. Management of Waste Materials

No waste materials associated with Option 4 EPMMs were generated during the reporting period.

7.6. Activity and Use Limitations

It is anticipated that AULs may be warranted for each property where an EPMM is installed, and where it is determined that the EPMM is necessary long-term. No AULs were recorded during this reporting period.

7.7. Permanent Solution Statements

A condition of NSR has been demonstrated at individual properties based on adequate data collected to reflect temporal variability of contaminant levels in indoor air, sub-slab soil gas and groundwater. These individual properties are eligible for a Partial PSS in accordance with the MCP (310 CMR 40.1000). The filing of a Partial PSS for an individual property documents the achievement of regulatory closure under the MCP for that property. Therefore, the Phase V provisions do not apply to properties for which an RAO-P or Partial PSS has been submitted.

The properties that have achieved a Partial PSS are shown on Fig. 7-3.

7.7.1. Permanent Solution without Conditions

GEI will prepare a Partial PSS without Conditions for residences where multiple lines of evidence have demonstrated the absence of a soil vapor migration pathway to indoor air and an EPMM is not required. GEI will also prepare Partial PSSs for residences where a Method 3 Risk Characterization, based on multiple rounds of sampling, indicated that concentrations of chlorinated VOCs in indoor air constitute NSR under current conditions and sub-slab soil vapor constitute NSR under future conditions. In addition, GEI will prepare a Partial PSS without Conditions for the portion of the Site occupied by public rights-of-way. The properties that have achieved a Partial PSS without Conditions are shown in Fig. 7-3.

7.7.2. Permanent Solution with Conditions

Active operation and maintenance is required for Option 1 EPMMs. Based on the MCP amendments effective June 20, 2014, a PSS with Conditions can be achieved for properties with an Option 1 EPMM. The condition associated with the PSSs with Conditions would be maintenance of the EPMM in accordance with an AUL.

GEI will attempt to record an AUL at each property with an EPMM to maintain the integrity of the EPMM. No new AULs were recorded during the reporting period. After an AUL is recorded, GEI will prepare a Partial PSS with Conditions for residential properties with Option 1, 2 or Option 3 EPMMs where 2 years of post-installation indoor air samples have demonstrated that the EPMM is effective. Following the post-installation indoor air sampling, GEI will continue annual inspections of EPMMs as provided for in the Phase IV RIP. The properties that have achieved a Partial PSS with Conditions are shown in Fig. 7-3. If a property owner does not execute an AUL, inspections will continue as Phase V activities.

7.8. Future Phase V Activities

7.8.1. EPMM Operation and Monitoring

The results of post-EPMM installation indoor air sampling indicate that the Option 1, 2, 3 and 4 EPMMs installed at the Site have achieved the remedial objectives. GEI will continue to conduct annual OMM activities for installed EPMMs where sufficient indoor air sampling has been conducted, but not repeat indoor air testing, unless requested.

GEI has been communicating with property developers for 31 Tufts Street and 121 Washington Street. An EPMM has been installed at 31 Tufts Street and at 121 Washington Street. GEI will plan with the property owners to continue the operation and monitoring program outlined in Section 7.5.

7.8.2. EPMM Modifications

As discussed in Section 7.3, remote telemetry has been installed at each Option 1 EPMM except for 9 Knowlton Street. The owner of 9 Knowlton Street has been unresponsive to telemetry access request letters, telephone calls, and property visits. Therefore, it is currently infeasible to install telemetry at the property.

As discussed in Section 7.5.1, 10 Morton Street is being renovated and installation of the new EPMM in the modification was completed during previous reporting periods.

7.8.3. EPMM Closure Sampling

As discussed in Section 7.3.2, GEI collected indoor air samples from 13 Knowlton Street in February 2018, March 2019, November 2019, and January 2023 and from 9 Knowlton Street in June 2022, January 2023, and March 2023 to demonstrate that the Option 1 EPMM is not required to maintain a condition of NSR.

Based on the results of the Option 1 EPMM closure sampling, GEI will continue to evaluate the need for an AEPMM to achieve a condition of NSR at 9 Knowlton and 13 Knowlton Street.

7.8.4. Installation of New EPMMs

No new EPMMs were installed during the current reporting period.

7.8.5. AULs and Permanent Solutions

If post-installation indoor air sampling at a property demonstrates that an EPMM continues to achieve the remedial objectives, then that property is eligible for a Partial PSS with Conditions.

If feasible, GEI will record AULs for each property where an EPMM is installed, and a Partial PSS with Conditions is to be issued.

Once the AULs are recorded, GEI will prepare a Partial PSS with Conditions for the properties with EPMMs. As discussed in Section 7.7, GEI will prepare Partial PSSs for those properties that did not require mitigation.

7.8.6. Future Residential Monitoring

As discussed in Section 1.4., GEI continues to attempt to contact new property owners in the Tufts Street neighborhood as property ownership turnover occurs. As discussed in the previous status report, GEI conducted indoor air and sub-slab soil vapor sampling at 97 Franklin Street in February 2025; GEI will conduct an additional round of indoor air sampling in the heating season of winter 2025/2026. GEI was able to establish contact with the owner of 84 Franklin Street and collect indoor air samples in May 2025; we will collect another round of indoor air samples in the heating season of winter 2025/2026.

As required by the NOAF/NON, GEI will conduct two rounds of indoor air testing at the following residences where passive EPMMs have been installed: 91 and 93 Franklin Street; 166-168 Glen Street, 17, 32 and 34 Knowlton Street; 4, 11, and 19-19A Morton Street. 91 and 93 Franklin is a single building. As discussed in the previous status report, the first round of indoor air testing was conducted in 7 of the 8 properties between February and April 2025; however, we could not access 4 Morton Street. In December 2025, a second round of indoor air testing was competed for 5 of the 8 properties (91 and 93 Franklin Street, 32 and 34 Knowlton Street, and 11 and 19-19A Morton Street). We will continue to attempt to access the 4 Morton Street property, along with 166-168 Glen Street and 17 Knowlton Street for a second round of indoor air testing.

As required by the NOAF/NON, GEI will attempt to obtain access to the properties where the property owners previously refused UniFirst's offer to install a vapor mitigation system. These seven properties include: 99 Franklin Street, 162-164 Glen Street, 9, 11-13, 17, 19, and 25 Tufts Street. As documented in Appendix B, GEI attempted to contact the owners of these properties via certified mail letters and by visiting the properties in person on December 17, 2025. GEI was able to establish contact with the owners of 162-164 Glen Street and 11-13 and 19 Tufts Street during the reporting period, and scheduling of indoor air sampling is pending. GEI will continue to attempt to access the other properties during the next reporting period.

8. 60 Tufts Street

8.1. Background

60 Tufts Street is a 17-unit condominium building adjacent to the Property, equipped with SSDS for vapor mitigation. The SSDS, operational since 2009, includes 12 vertical sub slab extraction points and 2 horizontal foundation wall extraction points connected to two headers and a 5-horsepower blower with monitoring controls. The system discharges through the parking garage roofline and does not require off-gas treatment, as annual VOC emissions are well below thresholds established by MassDEP Policy No. WSC 25 150, revised July 28, 2025. Remote telemetry, consisting of one radio node and one pressure switch connected to the blower, for system monitoring was added in July 2015, enabling remote shutdown notifications.

8.2. Remedial Objectives

The objectives of the SSDS at 60 Tufts Street is to:

- Eliminate or mitigate, to the extent feasible, the potential soil vapor migration pathway to indoor air.
- Achieve a condition of NSR for occupants of the condominium building.

8.3. Inspection and Monitoring

The system has been monitored in accordance with the requirements and schedule in the Phase IV RIP, and in accordance with the requirements and schedule presented in subsequent Phase IV Status Reports, and the Phase IV FIR/Phase V ROS.

Operational parameters for the system (e.g., flow rate, vacuum) were historically monitored monthly and indoor air quality in Units 1, 4, and 5 and sub-slab conditions were monitored for 2 years following installation of the EPMM. The Phase IV RIP provided for ongoing annual indoor air sampling. However, post-EPMM indoor air sampling and visual inspections confirmed that the EPMM at 60 Tufts Street has been constructed in accordance with the Phase IV RIP and has achieved the remedial design objectives. Accordingly, GEI no longer conducts annual indoor air testing but has continued to monitor operational parameters of the system.

Once remote telemetry was installed on the system in July 2015, GEI began to perform monitoring of system parameters on a quarterly basis. Inspection and monitoring at 60 Tufts Street were performed once from June to December 2025. A summary of monitoring activities conducted during this reporting period is in Table 8-1 and the Field Monitoring Forms are provided in Appendix I.

As discussed further in Section 8.6, inspection and monitoring was only performed once during the current reporting period (in July 2025) as the system was shut off intermittently for maintenance beginning on July 29, 2025.

8.4. Performance Efficiency and Effectiveness

As presented in the Phase IV RIP and Phase IV FIR/Phase V Status reports, the SSDS monitoring data show that the sub-slab vacuum field generated by the SSDS influences nearly the entire floor slab area. Indoor air samples were collected in Units 1, 4, and 5, which are the units closest to the ground floor, for 2 years after EPMM installation. The indoor air testing results indicated that a condition of NSR has been achieved for building occupants at 60 Tufts Street and the soil vapor migration pathway to indoor air has been mitigated to the extent feasible.

8.4.1. AEPMM Closure Testing

On March 20, 2018, a shutdown valve was installed on the SSDS riser pipe at 60 Tufts Street. To simulate conditions without operation of the AEPMM, the SSDS fan was turned off and the shutdown valve was closed for one week beginning on April 17, 2019, prior to collecting soil vapor and indoor air samples. After the indoor air sampling was completed, the shutdown valve was opened, and the blower was reactivated. The results of the indoor air and soil vapor sampling were presented in previous Phase V Status Reports.

8.5. Management of Waste Materials

No waste materials were managed at 60 Tufts Street during this reporting period.

8.6. System Modifications

In June and July 2025, GEI began receiving complaints from tenants about increased noise associated with the SSDS. Additionally, GEI received notifications that the blower had switched off on July 2 and July 26, 2025. During this period, GEI visited the property on multiple occasions to investigate the issue and restart the system. The SSDS fan was operated intermittently beginning on July 29, 2025, typically experiencing issues during periods of above average heat, to address tenant noise complaints while GEI coordinated maintenance. On August 1, 2025, First Electric Motor Services, Inc., of Woburn, Massachusetts (First Electric), inspected the regenerative blower and determined that it needed to be removed for in-shop repairs. On October 16, 2025, First Electric removed the blower and brought it to their repair facility. First Electric reinstalled the blower on December 24, 2025. On January 8, 2026, GEI turned the SSDS back on after completion of additional EPMM closure testing, discussed in Section 5.

Because the SSDS was shut off for more than 30 days during the reporting period, GEI notified MassDEP on November 24, 2025, in accordance with 310 CMR 40.1026(5).

8.7. Future Phase V Activities

The system is achieving the remedial design objectives and OMM activities will continue. To confirm system performance, GEI will continue to monitor operational parameters and sub-slab conditions (e.g., flow rate, vacuum) on a quarterly basis. During monitoring events, GEI will also perform maintenance tasks as needed, which may include documenting that the blower is in operation, draining accumulated water from the moisture separator or collection headers, changing the filter element for the blower, changing the batteries in the auto-dialer, and correcting any issues observed during routine

inspection of system components. GEI will implement any modifications to the telemetry system that may be required.

8.7.1. EPMM Closure Sampling

As described in Section 8.4.1 and in previous status reports, GEI conducted EPMM Shutdown Sampling in 2018 and 2019. Based on pre-EPMM indoor air testing at 60 Tufts Street, and changes to the toxicological characteristics for PCE, the EPMM may not be required to maintain a condition of NSR.

Based on the results of the previous sampling, GEI pursued additional shutdown sampling while the system was offline for maintenance in the current reporting period. With the regenerative blower offline, the shutdown valve was closed for one week beginning on August 28, 2025, prior to collecting soil vapor and indoor air samples. The results of this sampling were discussed in Sections 5.1 and 5.2.

An additional round of indoor air and soil vapor samples were collected between January 7 and 8, 2026, during system shutdown and while the shutdown valve was still closed, prior to restarting the system. As discussed in Sections 5.1 and 5.2, results of this additional round of sampling are pending.

The results of these sampling rounds will be used to evaluate whether the EPMM is required to maintain a condition of NSR.

8.7.2. Longest Allowable Duration of AEPMM Shutdown

An operating regime for the 60 Tufts Street AEPMM was included in the Phase IV FIR/Phase V ROS submitted on August 4, 2011, which included an OMM plan for the system. In accordance with the MCP (310 CMR 40.1026[3][f]), and as presented in Status Report No. 7 and RMR No. 22, the longest duration of a shutdown that would be consistent with a level of exposure that does not pose an IH and that poses NSR is 52 years for the 60 Tufts Street property.

8.7.3. Regulatory Closure

A Permanent Solution with Conditions can be achieved for properties where an AEPMM has achieved the remedial objectives, an AUL has been recorded for the property, and telemetry is installed. A Partial Permanent Solution Statement with Conditions may be submitted to achieve regulatory closure for 60 Tufts Street if the condominium association for the property executes an AUL. Alternatively, if shutdown testing demonstrates that an AEPMM no longer is required to maintain a condition of NSR, then a Partial Permanent Solution may be prepared without an AUL.

9. 50 Tufts Street Property

9.1. Background

The remedial system at the Property was originally designed and constructed as an SSDS that includes 22 sub-slab extraction points inside the building, a 15-horsepower regenerative blower with pressure gauges, controls, and particulate filter, and three 2,000-lb activated carbon absorbers operated in series for off-gas treatment. As part of the SSDS installation, the building slab was sealed to minimize vapor transmission through the slab. The cracks and joints in the building slab were filled with flexible sealant and a two-part epoxy coating was applied to the surface of the slab. GEI began operating the SSDS in April 2007.

In July and August 2007, SVE components were added to the system as part of the CRA to address residual VOCs in soil. The SVE system includes seven SVE points installed below the pavement in the north and south parking lots on the Property. The SSDS and the SVE system rely upon shared equipment, including the piping manifold, blower assembly, and off-gas treatment units. GEI began operating the SVE system on August 2007.

In April 2015, a wireless telemetry hub was installed at the Property. The telemetry hub receives telemetry notification from the other AEPMMs at the Site. A radio node was also installed and connected to monitor the 50 Tufts Street system.

9.2. Remedial Objectives

The design objectives of the combined SSDS/SVE system were to:

- Eliminate or mitigate, to the extent feasible, the soil vapor migration pathway to indoor air.
- Achieve a condition of NSR for a commercial full-time worker.
- Reduce the mass of contaminants in the vadose zone.
- Control the potential migration of soil vapor from the Property to the 60 Tufts Street property.

9.3. Inspection and Monitoring

The system has been monitored in accordance with the requirements and schedule in the Phase IV RIP. Monitoring of the system was historically performed monthly; however, once telemetry was installed on the system, GEI began performing quarterly monitoring in July 2015. Operational parameters for the system (e.g., flow rate, vacuum, off-gas treatment efficiency) were monitored six times from June to December 2025. GEI also measures the vapor pressure of sub-slab extraction points and monitoring points periodically. GEI uses these sub-slab pressure measurements to confirm system effectiveness. The pipe and hose connections on the pressure side of the blower are examined during monitoring visits for potential leaks. Leaks, if encountered, are corrected immediately. Carbon change-outs are scheduled based on carbon tank monitoring data to maximize VOC adsorption while maintaining compliance with regulatory requirements regarding discharge of VOCs to the atmosphere. Procedures to address

potential spills of spent activated carbon during carbon change-outs have been developed and are presented in the system OMM Plan provided in the Phase IV RIP.

GEI performs monitoring for off-gas treatment efficiency monthly. Based on that monitoring, the system off-gas for the combined SSDS/SVE system was within permissible limits during the reporting period. A summary of monitoring activities during this reporting period is provided in Table 9-1, and Field Monitoring Forms are provided in Appendix I.

9.4. Performance Efficiency and Effectiveness

The SSDS monitoring data show that the sub-slab vacuum field generated by the SSDS covers most of the building slab area. In conjunction with the physical sealing of the slab, this indicates the soil vapor migration pathway to indoor air is being mitigated by the system. Based on indoor air testing results collected since the combined system has been in operation, and the Method 3 risk characterizations prepared for the Site, a condition of NSR for full-time commercial workers has been achieved for the building at the Property.

The SVE system monitoring data show that vacuum influence from the SVE points in the south parking lot extends approximately 30 feet south of the building and from the SVE points in the north parking lot extends onto 60 Tufts Street.

Three influent and two effluent samples from the carbon treatment system were collected in May 2007, June 2007, and March 2008. The results of this sampling were compared with PID field measurements to estimate the total mass of VOCs removed from soil vapor between April 2007 and May 2014. However, GEI collected more recent influent and effluent samples in February 2014. The results of the February 2014 influent and effluent sampling are a better indicator of current system conditions and were used to estimate the total mass of VOCs removed from soil vapor based on PID field measurements beginning in June 2014. Monitoring data from both the SSDS and SVE components through December 15, 2025, show that approximately 9,522 lbs (approximately 707 gallons) of VOCs have been removed from the vadose zone at the Property (Fig. 9-1).

9.5. Management of Waste Materials

Infrequently, condensate in system piping may accumulate in the moisture separator installed as part of the blower assembly. If observed, the liquid is drained from the moisture separator and dispensed to the bare ground surface at the Property so that it can infiltrate into the subsurface within the Site boundary.

Based on the previous quantities of spent carbon generated by the system, a 2023 Hazardous Waste Report was submitted to MassDEP on March 7, 2024, identifying the Property as a Large Quantity Generator (LQG) facility. GEI will submit the next biennial Hazardous Waste Report in early 2026.

Remediation waste generated during this reporting period consisted of 4,000 lbs of spent activated carbon. The carbon change-out occurred on July 17, 2025, and the spent carbon was delivered to Reworld Avon TSDF (Reworld Waste, LLC) of Avon, Ohio under a uniform hazardous waste manifest. Disposal documentation for this reporting period is in Appendix E.

9.6. System Modifications

No system modifications were made during this reporting period.

9.7. Future Phase V Activities

The system is achieving the remedial design objectives. Phase V OMM activities will continue in accordance with the requirements and schedule set forth in the Phase IV RIP.

9.7.1. Longest Duration of AEPMM Shutdown

An operating regime for the 50 Tufts Street AEPMMs was included in the Phase IV FIR/ Phase V ROS submitted on August 4, 2011, which included an OMM plan for the system. Indoor air sampling performed at 50 Tufts Street by GeoInsight in September 2006 identified PCE concentrations ranging from 550 to 800 µg/m^3, and TCE concentrations ranging from 16 to 150 µg/m^3. In accordance with the MassDEP Fact Sheet "TCE Toxicity Information: Implications for Chronic and Shorter-Term Exposure," dated March 27, 2014, the pre-EPMM concentrations in the building would pose an IH even over a short time period, such as a matter of days. However, GEI performed indoor air sampling during an unscheduled SSDS/SVE system shutdown in March 2015. The March 2015 indoor air concentrations did not pose an IH, and TCE was not detected during the March 2015 indoor air sampling. Based on system monitoring logs, the system was likely down for slightly less than 1 month during the March 2015 shut down. This information indicates that an IH would not be present during a minor shut down of the 50 Tufts Street system. Because the building is currently occupied, sampling cannot be conducted after the system has been shut down for a full 60 days or longer, so the maximum duration for a system shutdown that might pose an IH is not known now.

GEI will continue to operate the AEPMM at 50 Tufts Street.

10. Monitored Natural Attenuation

MNA is part of the remedial strategy to reach a Permanent Solution for the Site. GEI has implemented an MNA program to confirm on-going natural attenuation is occurring at the Site. The MNA program is described in the MNA OMM Plan presented in the Phase IV RIP. The primary elements of the MNA program include:

- Plume Stability Monitoring: A groundwater sampling plan to monitor overburden and bedrock groundwater plume concentrations through time to confirm that the groundwater plumes are stable, and that overall groundwater concentrations of chlorinated VOCs are not increasing.
- Natural Attenuation Evaluation: An evaluation of overburden and bedrock groundwater plume concentrations through time for indications of the presence and rate of natural attenuation processes.

MNA was incorporated into the remedial strategy to achieve a Permanent Solution for the Site, as documented in the Phase III Report submitted to MassDEP in 2008. GEI is conducting a groundwater monitoring program and a comprehensive update of the MNA evaluation to verify on-going natural attenuation at the Site. The MNA update will be included in the "Phase II CSA Addendum" report and updated CSM.

11. Tufts Street Reconstruction

The City of Somerville announced the Tufts Street Reconstruction project in July 2023, initially planning for sidewalk reconstruction, catch basin replacement, street realignment, and repaving, with construction originally scheduled for summer and fall 2024. Following community feedback, the project's scope was expanded in February 2024 to include new trees and greenery, which required deeper soil excavation and additional shallow soil testing due to contamination at 50 Tufts Street. This led to a revised construction timeline for 2025 and 2026. The project was put out to bid in February 2025, awarded in March 2025, and construction began in September 2025 and is currently ongoing.

GEI has been working cooperatively with the City of Somerville and their LSP (Atlas Technical Consultants LLC [Atlas]) regarding the impacts of the 50 Tufts Street contamination on the project.

The Tufts Street Reconstruction project website with updated communication and concept plans is:

https://voice.somervillema.gov/tufts-street-reconstruction

11.1. 50 Tufts Street Soil Borings and Soil Samplings

On February 12, 2024, GEI observed NDS advance five soil borings (50TUFT B101 through 50TUFT B105) on the 50 Tufts Street property adjacent to the property boundary with the City of Somerville sidewalk (Fig 11-1). The purpose of the soil sampling was to evaluate concentrations of chlorinated VOCs on the 50 Tufts Street property near the proposed work area for the Tufts Street Reconstruction Project. Borings 50TUFT B101 and 501TUFT B102 were advanced in the northern parking lot and borings 50TUFT B103 through 50TUFT B105 were advanced in the southern parking lot. Borings were advanced to a depth of five feet and samples were collected for analysis of VOCs.

Boring logs and Laboratory Data Reports were included in the Phase V Status Report No. 26 and RMR No. 41.

11.2. City of Somerville Subsurface Investigation

GEI learned from the City of Somerville and its LSP that eight soil borings were completed in March 2024 during a subsurface investigation. The City's data, previously not publicly available, was submitted with a Utility-Related Abatement Measure (URAM) in May 2025.

11.2.1. Utility-Related Abatement Measure

Atlas notified MassDEP on May 9, 2025, of their intent to manage contaminated soil and groundwater associated with the 50 Tufts Street Site (RTN 3-23246) as part of the Tufts Street Reconstruction Project as a Utility Release Abatement Measure (URAM). MassDEP assigned RTN 3-51811 to the URAM. Atlas submitted the URAM to MassDEP on May 16, 2025, which includes the details of soil sampling and laboratory testing. A copy of a URAM is in Appendix K.

In March 2024, Atlas installed eight soil borings (ATC-1 through ATC-8) within Tufts Street to approximately 10 feet. Atlas collected two soil samples from each boring at depths of 0 to 5 feet and 5-10 feet for analysis of VOCs. Additionally, Atlas collected two composite soil samples, for analysis of waste disposal parameters. Concentrations of VOCs (PCE) were detected in one of the sixteen soil samples (ATC-8 5-10 feet) at 0.0314 mg/kg.

The URAM incorporates contaminated soil and groundwater management into the project's design and specifications. It requires a contractor health and safety plan, potential PPE upgrades to Level C, and the installation of check dams every 30 feet along drainage pipes to prevent groundwater contamination. Additionally, a Contained-In-Determination (CID) was submitted in May 2025 to facilitate off-site soil disposal.

11.2.2. Contained-In Determination

Atlas submitted a Contained-In Determination (CID) to MassDEP on May 19, 2025, to reclassify soil with detected concentrations of chlorinated VOCs as suitable for disposal at an in-state landfill. The CID was based on subsurface investigations from March 2024 and additional data from GEI's February 2024 soil sampling. Atlas requested that all soil within the right-of-way, except for a small area in front of 50 Tufts Street (due to elevated PCE levels), be declassified as hazardous waste. The limited area with higher contamination was excluded from the request. The CID is included in Appendix K.

MassDEP rejected the CID and requested additional sampling to better define the extent of chlorinated VOC contamination in soil. Atlas submitted a revised CID on July 10, 2025, which was presumptively approved on July 29, 2025. A copy of the revised CID is included in Appendix K.

11.3. Summary of URAM Activities

Construction began in September 2025 and is ongoing. Excavated soil is being stockpiled on the 50 Tufts Street property prior to reuse or offsite disposal. Excavation has not started in the area in front of the 50 Tufts Street building excluded from the CID; additional test pits are planned to better delineate this area. Construction was paused in December 2025 due to winter conditions and will resume in the spring.

12. Remedial Monitoring Report No. 44

Remedial Monitoring Report No. 44, documenting OMM activities for active remedial systems at the Site, is presented in the BWSC-108A and 108B Transmittal Forms in Appendix A.

13. References

MassDEP (2025). "Off-gas Treatment of Point-Source Remedial Air Emissions, Policy #WSC-25-150", July 28.

MassDEP (2016). "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure, Policy # WSC-16-435", October 14.

MassDEP (2024). The Massachusetts Contingency Plan (MCP), 310 CMR 40.0000, March 1.

Atlas (2025). "Contained-In Determination, Soil from Tufts Street Right-of-Way Improvements, Somerville, MA, RTN 3-51811," May.

Atlas (2025). "Utility-Related Abatement Measure Notification Report, Tufts Street Improvement Project, Somerville, MA, RTN 3-51811," May.

GEI (2015). "Phase V Status Report No. 8 and Remedial Monitoring Report No. 23, 50 Tufts Street, Somerville, MA, RTN 3-23246," August 3.

GEI (2022). "Release Abatement Measure Plan, 31 Tufts Street, a portion of 50 Tufts Street Disposal Site, Somerville, Massachusetts, RTNs 3-23246 and 3-37468," July 25.

GEI (2023). "Release Abatement Measure Status Report No. 1, 31 Tufts Street, a portion of 50 Tufts Street Disposal Site, Somerville, Massachusetts, RTNs 3-23246 and 3-37468," January 11.

GEI (2023). "Release Abatement Measure Status Report No. 2, 31 Tufts Street, a portion of 50 Tufts Street Disposal Site, Somerville, Massachusetts, RTNs 3-23246 and 3-37468," May 22.

GEI (2023). "Release Abatement Measure Plan, 10 Morton Street, a portion of 50 Tufts Street Disposal Site, Somerville, Massachusetts, RTNs 3-23246," June 21.

GEI (2023). "Release Abatement Measure Plan Modification and Status Report No. 1, 10 Morton Street, a portion of 50 Tufts Street Disposal Site, Somerville, Massachusetts, RTNs 3-23246," November 8.

GEI (2023). "Release Abatement Measure Completion Report and Permanent Solution Statement, 31 Tufts Street, a portion of 50 Tufts Street Disposal Site, Somerville, Massachusetts, RTNs 3-23246 and 3-37468," December 4.

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GEI (2024). "Release Abatement Measure Status Report No. 2, 10 Morton Street, a portion of 50 Tufts Street Disposal Site, Somerville, Massachusetts, RTN 3-23246," May 2.

GEI (2024). "Release Abatement Measure Status Report No. 1, 121 Washington Street, a portion of 50 Tufts Street Disposal Site, Somerville, Massachusetts, RTN 3-23246," July 20.

GEI (2024). "Release Abatement Measure Status Report No. 3, 10 Morton Street, a portion of 50 Tufts Street Disposal Site, Somerville, Massachusetts, RTN 3-23246," October 29.

GEI (2025). "Release Abatement Measure Status Report No. 2, 121 Washington Street, a portion of 50 Tufts Street Disposal Site, Somerville, Massachusetts, RTN 3-23246," January 20.

GEI (2025). "Release Abatement Measure Status Report No. 4, 10 Morton Street, a portion of 50 Tufts Street Disposal Site, Somerville, Massachusetts, RTN 3-23246," May 28.

GEI (2025). "Partial Permanent Solution Statement for 103 Washington Street, a portion of 50 Tufts Street Disposal Site, Somerville, Massachusetts, RTN 3-23246," June 12.

GEI (2025). "Release Abatement Measure Status Report No. 3, 121 Washington Street, a portion of 50 Tufts Street Disposal Site, Somerville, Massachusetts, RTN 3-23246," July 10.

GEI (2025). "Phase V Status Report No. 28 and Remedial Monitoring Report No. 43, 50 Tufts Street, Somerville, MA, RTN 3-23246," August 5.

GEI (2025). "Notification Retraction, 11 Morton Street, Somerville, Massachusetts, RTN 3-52237," September 24, 2025.

GEI (2025). "Release Abatement Measure Status Report No. 5, 10 Morton Street, a portion of 50 Tufts Street Disposal Site, Somerville, Massachusetts, RTN 3-23246," December 12.

GEI (2026). "Release Abatement Measure Status Report No. 4, 121 Washington Street, a portion of 50 Tufts Street Disposal Site, Somerville, Massachusetts, RTN 3-23246," January 31.

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TRC (2019). "URAM Plan for Excavation and Dewatering, MBTA Green Line Extension, Somerville, MA, RTN 3-35528," April.

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TRC (2019). "Utility-Related Abatement Measure Completion Report, MBTA Green Line Extension, Somerville, MA, RTN 3-35528," August.

TRC (2024). "Release Abatement Measure Completion Report, 132 Washington Street, Somerville, MA," May 7.

Weston & Sampson (2019). "Downgradient Property Status Submittal, 132 Washington Street, Somerville, MA, RTN 3-34742," June.

Tables

Table 4-1 Boring and Monitoring Well Installation Summary

Table 4-2 Chemical Testing Results – Soil (MW403 and MW404)

Table 4-3 Groundwater Elevations

Table 4-4 Summary of Groundwater Sampling Activities

Table 4-5 Chemical Testing Results – GEI Groundwater Sampling

Table 4-6 Chemical Testing Results – GLX Groundwater Sampling

Table 5-1 Chemical Testing Results – 11 Morton Soil Vapor Sampling

Table 5-2 Chemical Testing Results – 60 Tufts Unit #1 Soil Vapor Sampling

Table 5-3 Chemical Testing Results – 60 Tufts Unit #4 Soil Vapor Sampling

Table 5-4 Chemical Testing Results – 60 Tufts Common Space Soil Vapor Sampling

Table 5-5 Chemical Testing Results – 121 Washington Soil Vapor Sampling

Table 5-6 Chemical Testing Results – 34 Knowlton Soil Vapor Sampling

Table 5-7 Chemical Testing Results – 11 Morton Indoor Air Sampling

Table 5-8 Chemical Testing Results – 60 Tufts Unit #1 Indoor Air Sampling

Table 5-9 Chemical Testing Results – 60 Tufts Unit #4 Indoor Air Sampling

Table 5-10 Chemical Testing Results – 60 Tufts Common Space Indoor Air Sampling

Table 5-11 Chemical Testing Results – 19-19A Morton Indoor Air Sampling

Table 5-12 Chemical Testing Results – 91-93 Franklin Indoor Air Sampling

Table 5-13 Chemical Testing Results – 32 Knowlton Indoor Air Sampling

Table 5-14 Chemical Testing Results – 34 Knowlton Indoor Air Sampling

Table 5-15 Summary of Meteorological Data During Air Sampling Events

Table 6-1 Summary of SSDS Monitoring Events – Capuano Center

Table 6-2 Chemical Testing Results – Capuano Center Indoor and Outdoor Air

Table 7-1 Exposure Pathway Mitigation Measure (EPMM) Status

Table 7-2 Indoor Air Sampling and EPMM Monitoring

Table 8-1 Summary of SSDS Monitoring Events – 60 Tufts Street

Table 9-1 Summary of SSDS Monitoring Events – 50 Tufts Street

Table 4-1. Boring and Monitoring Well Installation Summary
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Exploration ID	Monitoring Well/ Soil Boring	Depth of Exploration (ft)	Completion Date	Drilling Method	Well Screen Interval (ft)	Property	Purpose	Soil Sampling Analysis
B401S / MW401S	Monitoring Well	20	10/3/2025	Drive and Wash	10 to 20	86 Franklin Street (sidewalk)	assess shallow overburden conditions	NA
B401D / MW401D	Monitoring Well	44.5	9/30/2025	Drive and Wash	34 to 44	86 Franklin Street (sidewalk)	assess shallow bedrock conditions	NA
B402 / MW402	Monitoring Well	30	10/6/2025	Drive and Wash	20 to 30	Intersection of Morton Street and Knowlton Street	assess shallow bedrock conditions	NA
B403 / MW403	Monitoring Well	90	10/14/2025	Drive and Wash	80 to 90	50 Tufts Street (south portion)	assess deep bedrock conditions	VOCs
B404 / MW404	Monitoring Well	90	10/22/2025	Drive and Wash	72.5 to 82.5	50 Tufts Street (central parking lot)	assess deep bedrock conditions	VOCs
B405 / MW405	Monitoring Well	20	10/23/2025	Direct Push (Geoprobe)	10 to 20	Intersection of New Washington Street and Washington Street	assess shallow overburden conditions	NA
B406 / MW406	Monitoring Well	14	10/24/2025	Direct Push (Geoprobe)	4 to 14	Intersection of Joy Street and Washington Street	assess shallow overburden conditions	NA
B407 / MW407	Monitoring Well	18	12/30/2025	Direct Push (Geoprobe)	4.45 to 14.45	31 Tufts Street (sidewalk at corner of Glen Street and Tufts Street)	assess shallow overburden conditions	NA

Notes:
1. NA = Not Applicable
2. VOCs = Volatile Organic Compounds
3. Boring B406 encountered refusal at 14 feet.
4. Boring B407 encountered refusal at 18 feet, and the casing encountered refusal at 14.6 feet.

Table 4-2. Chemical Testing Results - Soil (MW403 and MW404)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

				Boring:	**MW403**			**MW404**		
				Sample ID:	**MW403-(8-9')**	**MW403-(13-14')**	**MW403-(16-17')**	**MW404-(6-7')**	**MW404-(7-8')**	**MW404-(10')**
				Lab Package ID:	**L2564441-01**	**L2564441-02**	**L2564441-03**	**L2566491-01**	**L2566491-02**	**L2566491-03**
				Sample Date:	**10/9/2025**	**10/9/2025**	**10/9/2025**	**10/20/2025**	**10/20/2025**	**10/20/2025**
				Sample Depth (ft):	**8-9'**	**13-14'**	**16-17'**	**6-7'**	**7-8'**	**10'**
				Stratigraphy:	**Fill**	**Watertable**	**Till Interface**	**Fill**	**Watertable**	**Till Interface**
				PID (ppm):	**0.0**	**0.1**	**6.6**	**6.0**	**6.0**	**0.8**
Analyte	**Method**	**Units**	**MCP RCS-1**	**MCP RCS-2**						
Volatile Organic Compounds (VOCs)	8260B	mg/kg								
1,1,1-Trichloroethane			30	600	<0.0032	<0.0024	0.035	<0.0019	<0.0015	<0.0022
1,1-Dichloroethane			0.4	9	<0.0065	<0.0049	0.089	<0.0038	<0.0031	<0.0043
1,2-Dichloroethene, Total			0.1	0.1	<0.0065	**0.27**	**1.4**	<0.0038	<0.0031	<0.0043
4-Isopropyltoluene			100	1,000	<0.013	<0.0097	0.074	<0.0075	<0.0031	<0.0086
cis-1,2-Dichloroethene			0.1	0.1	<0.0065	**0.27**	**1.3**	<0.0038	<0.0031	<0.0043
Tetrachloroethene			1	4	0.13	**1.1**	**11**	**5.6**	0.52	**4.6**
Toluene			30	1,000	<0.0032	<0.0024	0.031	<0.0019	<0.0031	<0.0022
trans-1,2-Dichloroethene			1	1	<0.0097	<0.0097	0.056	<0.0056	<0.0046	<0.0086
Trichloroethene			0.3	0.3	<0.0032	**0.3**	**0.86**	0.21	0.022	0.16
Vinyl chloride			0.3	1	<0.013	<0.0097	0.25	<0.0075	<0.0031	<0.0086
Total VOCs			100	100	0.130	1.940	15.095	5.810	0.542	4.760
General Chemistry				NS						
Solids, Percent	2540G	%	NS		78	77	90	98	94	91

General Notes:

1. In general, analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
2. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
3. MCP = 310 CMR 40.0000 Massachusetts Contingency Plan with revisions effective March 1, 2024
4. Reportable Concentrations (e.g., RCS-1) where identified, are cited from the MCP.
5. **Bold** = Value exceeds RCS-1 standards.
6. ND = Not detected above laboratory reporting limit
7. NS = No standard has been promulgated for this analyte.
8 NT = Not tested.
9. mg/kg = milligrams per kilogram.

Qualifying Notes:

K- The result has a low bias due to blank spike or laboratory recovery below lower control limits

Table 4-3. Groundwater Elevations
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

		Gauging Date:	5/15/2006		5/16/2006		5/23/2006		5/31/2006		7/24/2006		8/1/2006		8/3/2006		8/16/2006	
Monitoring Well ID	Well Screen Interval (ft bgs)	Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.90	9.69	16.21	9.53	16.37	10.9	15	11.39	14.51	--	--	--	--	--	--	11.9	14
MW-2	unknown	25.38	8.99	16.39	10.36	15.02	Dry	Dry	Dry	Dry	--	--	--	--	--	--	Dry	Dry
MW-3	unknown	25.31	8.88	16.43	9.32	15.99	11.16	14.15	12.71	12.6	--	--	--	--	--	--	13.73	11.58
MW-101	9 - 19	26.75	--	--	10.56	16.19	11.53	15.22	12.1	14.65	12.33	14.42	12.51	14.24	13.47	13.28	12.78	13.97
MW-102	6 - 16	18.89	--	--	6.62	12.27	6.86	12.03	7.44	11.45	7.93	10.96	8.16	10.73	9.11	9.78	8.51	10.38
MW-103	6 - 16	19.47	--	--	9.5	9.97	10.37	9.1	10.74	8.73	11.15	8.32	11.31	8.16	12.24	7.23	11.72	7.75
MW-104	5 - 15	17.67	--	--	--	--	7.93	9.74	8.89	8.78	9.06	8.61	9.39	8.28	10.29	7.38	9.87	7.8
MW-104R	5 - 15	15.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-105	19 - 29	38.84	--	--	19.49	19.35	20.21	18.63	20.7	18.14	21.18	17.66	21.43	17.41	22.41	16.43	21.91	16.93
MW-106	9 - 19	26.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-107	2 - 12	14.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108	2 - 12	12.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-109	3 - 13	24.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110	3 - 13	15.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111	4 - 14	18.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111R	5 - 15	18.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-112	3 - 10	18.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-112a	4 - 19	17.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-113	10 - 20	26.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114	7 - 17	29.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-115/115R	10 - 25	27.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-116	5 - 15	13.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-117S	5 - 20	21.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-117T	35 - 45	21.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-117D	60 - 70	21.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-118S	3 - 14	15.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-118T	39.5 - 49.5	15.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-118D	70 - 80	15.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-119S	5 - 20	11.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-119T	42 - 47	11.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-120S	5 - 20	12.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-120D	28 - 38	12.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-121S	5 - 20	12.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-121D	32 - 47	12.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-122	4 - 16	16.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GEO-1	5 - 20	25.88	9.69	16.19	9.9	15.98	10.92	14.96	11.36	14.52	--	--	--	--	--	--	11.82	14.06
GEO-2	5 - 20	26.54	9.76	16.78	--	--	11.38	15.16	11.91	14.63	--	--	--	--	--	--	12.51	14.03
GEO-3	5 - 20	25.64	10.43	15.21	9.59	16.05	9.87	15.77	10.67	14.97	11.67	13.97	11.85	13.79	12.84	12.8	12.25	13.39
GEO-4	4 - 19	21.69	--	--	7.79	13.9	9.85	11.84	10.78	10.91	11.25	10.44	11.45	10.24	12.43	9.26	11.9	9.79
GEO-5	5 - 20	20.14	--	--	6.78	13.36	9.08	11.06	9.96	10.18	10.29	9.85	10.56	9.58	11.51	8.63	10.99	9.15
GEO-6	5 - 20	17.62	--	--	5.66	11.96	7.39	10.23	8.23	9.39	8.43	9.19	8.73	8.89	9.64	7.98	9.25	8.37
SH-1	9 - 14	29.55	10.15	19.4	11.4	18.15	Dry	Dry	Dry	Dry	--	--	--	--	--	--	Dry	Dry
SH-2	7 - 14	29.64	5.71	23.93	7.86	21.78	12.07	17.57	12.22	17.42	--	--	--	--	--	--	11.98	17.66
SH-3	8 - 13	29.66	7.54	22.12	8.56	21.1	12.73	16.93	12.96	16.7	--	--	--	--	--	--	Dry	Dry
SH-4	11 - 16	29.63	13.53	16.1	13.48	16.15	14.48	15.15	15.02	14.61	--	--	--	--	--	--	15.09	14.54
SH-5	8 - 13	29.63	Dry	Dry	--	--	12.99	16.64	13.03	16.6	--	--	--	--	--	--	Dry	Dry
SH-MW1	10 - 30	24.02	6.72	17.3	--	--	11.44	12.58	12.18	11.84	--	--	--	--	--	--	13.09	10.93
SH-MW2	10 - 25	24.27	9.33	14.94	--	--	12.05	12.22	12.69	11.58	--	--	--	--	--	--	13.38	10.89
SH-MW2R	10 - 23	24.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW3	10 - 24	22.31	7.8	14.51	--	--	10.26	12.05	11.03	11.28	--	--	--	--	--	--	13	9.31
MW201	11 - 21	27.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW202	10.5 - 20.5	27.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW203	6 - 18	21.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW203R	13 - 23	24.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW301	5-15	13.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW401S	10-20	16.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW401D	34-44	16.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW402	20-30	19.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW403	80-90	16.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW404	72.5-82.5	24.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW405	8-18	15.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW406	4-14	13.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW406	4.45-14.45	25.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

General Notes:
1. ft = feet.
2. bgs = below ground surface.
3. ID = identification.
4 GW = groundwater.
5. NAVD = North American Vertical Datum of 1988.
6. The top of the PVC riser was used as the measuring point for depth to groundwater.
7. "--" = Well not yet installed, abandoned, or not measured.
8. NM = Not measured.

Table 4-3. Groundwater Elevations
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

		Gauging Date:	9/29/2006		10/4/2006		11/14/2006		12/12/2006		1/16/2007		2/12/2007		3/14/2007		4/12/2007	
Monitoring Well ID	Well Screen Interval (ft bgs)	Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.90	--	--	11.88	14.02	--	--	--	--	11.6	14.3	--	--	--	--	11.39	14.51
MW-2	unknown	25.38	--	--	--	--	--	--	--	--	Destroyed	Destroyed	--	--	--	--	--	--
MW-3	unknown	25.31	--	--	13.75	11.56	--	--	--	--	13.05	12.26	--	--	--	--	12.57	12.74
MW-101	9 - 19	26.75	12.85	13.9	12.76	13.99	12.25	14.5	12.57	14.18	12.4	14.35	12.81	13.94	12.34	14.41	12.11	14.64
MW-102	6 - 16	18.89	8.68	10.21	8.52	10.37	7.64	11.25	8.01	10.88	7.72	11.17	8.52	10.37	--	--	7.46	11.43
MW-103	6 - 16	19.47	11.98	7.49	11.92	7.55	11	8.47	11.21	8.26	10.88	8.59	11.74	7.73	11	8.47	10.66	8.81
MW-104	5 - 15	17.67	9.95	7.72	9.92	7.75	--	--	--	--	8.73	8.94	--	--	--	--	8.75	8.92
MW-104R	5 - 15	15.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-105	19 - 29	38.84	22.27	16.57	22.18	16.66	21.16	17.68	21.76	17.08	21.46	17.38	22.03	16.81	21.56	17.28	20.88	17.96
MW-106	9 - 19	26.33	--	--	--	--	--	--	--	--	--	--	12.27	14.06	12.91	13.42	11.65	14.68
MW-107	2 - 12	14.63	--	--	--	--	--	--	--	--	--	--	4.54	10.09	4.5	10.13	4.49	10.14
MW-108	2 - 12	12.74	--	--	--	--	--	--	--	--	--	--	4.93	7.81	4.02	8.72	9.91	2.83
MW-109	3 - 13	24.12	--	--	--	--	--	--	--	--	--	--	12.07	12.05	11.27	12.85	10.27	13.85
MW-110	3 - 13	15.58	--	--	--	--	--	--	--	--	--	--	5.99	9.59	1.46	14.12	1.04	14.54
MW-111	4 - 14	18.95	--	--	--	--	--	--	--	--	--	--	11.38	7.57	10.62	8.33	10.65	8.3
MW-111R	5 - 15	18.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-112	3 - 10	18.16	--	--	--	--	--	--	--	--	--	--	Dry	Dry	8.01	10.15	Dry	Dry
MW-112a	4 - 19	17.78	--	--	--	--	--	--	--	--	--	--	--	--	12.76	5.02	12.76	5.02
MW-113	10 - 20	26.16	--	--	--	--	--	--	--	--	--	--	--	--	11.66	14.5	11.44	14.72
MW-114	7 - 17	29.43	--	--	--	--	--	--	--	--	--	--	--	--	12.67	16.76	11.27	18.16
MW-115/115R	10 - 25	27.15	--	--	--	--	--	--	--	--	--	--	--	--	17.19	9.96	16.21	10.94
MW-116	5 - 15	13.45	--	--	--	--	--	--	--	--	--	--	--	--	8.78	4.67	8.34	5.11
MW-117S	5 - 20	21.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-117T	35 - 45	21.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-117D	60 - 70	21.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-118S	3 - 14	15.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-118T	39.5 - 49.5	15.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-118D	70 - 80	15.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-119S	5 - 20	11.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-119T	42 - 47	11.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-120S	5 - 20	12.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-120D	28 - 38	12.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-121S	5 - 20	12.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-121D	32 - 47	12.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-122	4 - 16	16.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GEO-1	5 - 20	25.88	--	--	11.85	14.03	--	--	--	--	11.55	14.33	--	--	--	--	11.36	14.52
GEO-2	5 - 20	26.54	--	--	12.51	14.03	--	--	--	--	12.2	14.34	--	--	--	--	11.97	14.57
GEO-3	5 - 20	25.64	12.37	2.84	12.35	13.29	11.63	14.01	11.72	13.92	11.58	14.06	12.21	13.43	11.49	14.15	10.76	14.88
GEO-4	4 - 19	21.69	12.09	9.6	12.04	9.65	10.58	11.11	11.31	10.38	10.77	10.92	11.83	9.86	11.03	10.66	10.51	11.18
GEO-5	5 - 20	20.14	11.21	8.93	11.15	8.99	9.47	10.67	10.48	9.66	9.73	10.41	11.02	9.12	10.15	9.99	9.7	10.44
GEO-6	5 - 20	17.62	9.41	8.21	9.26	8.36	7.65	9.97	8.82	8.8	8.11	9.51	9.3	8.32	8.54	9.08	8.32	9.3
SH-1	9 - 14	29.55	--	--	Dry	Dry	--	--	--	--	Dry	Dry	--	--	--	--	--	--
SH-2	7 - 14	29.64	--	--	12	17.64	--	--	--	--	Dry	Dry	--	--	--	--	--	--
SH-3	8 - 13	29.66	--	--	Dry	Dry	--	--	--	--	Dry	Dry	--	--	--	--	--	--
SH-4	11 - 16	29.63	--	--	15.1	14.53	--	--	--	--	Dry	Dry	--	--	--	--	--	--
SH-5	8 - 13	29.63	--	--	Dry	Dry	--	--	--	--	Dry	Dry	--	--	--	--	--	--
SH-MW1	10 - 30	24.02	--	--	13.17	10.85	--	--	--	--	12.21	11.81	--	--	--	--	12.01	12.01
SH-MW2	10 - 25	24.27	--	--	13.41	10.86	--	--	--	--	12.73	11.54	--	--	--	--	12.61	11.66
SH-MW2R	10 - 23	24.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW3	10 - 24	22.31	--	--	12.04	10.27	--	--	--	--	11.04	11.27	--	--	--	--	10.81	11.5
MW201	11 - 21	27.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW202	10.5 - 20.5	27.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW203	6 - 18	21.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW203R	13 - 23	24.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW301	5-15	13.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW401S	10-20	16.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW401D	34-44	16.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW402	20-30	19.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW403	80-90	16.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW404	72.5-82.5	24.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW405	8-18	15.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW406	4-14	13.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW406	4.45-14.45	25.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

General Notes:
1. ft = feet.
2. bgs = below ground surface.
3. ID = identification.
4 GW = groundwater.
5. NAVD = North American Vertical Datum of 1988.
6. The top of the PVC riser was used as the measuring point for depth to groundwater.
7. "--" = Well not yet installed, abandoned, or not measured.
8. NM = Not measured.

Table 4-3. Groundwater Elevations
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

		Gauging Date:	5/29/2007		6/26/2007		7/16/2007		8/22/2007		9/27/2007		10/23/2007		11/30/2007		1/9/2008	
Monitoring Well ID	Well Screen Interval (ft bgs)	Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.90	11.41	14.49	11.8	14.1	12.04	13.86	--	--	12.26	13.64	12.07	13.83	11.95	13.95	--	--
MW-2	unknown	25.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	unknown	25.31	14.89	10.42	13.6	11.71	13.94	11.37	--	--	14.34	10.97	13.94	11.37	13.75	11.56	12.86	12.45
MW-101	9 - 19	26.75	12.17	14.58	12.62	14.13	12.85	13.9	13.03	13.72	13.17	13.58	12.91	13.84	13.82	12.93	12.11	14.64
MW-102	6 - 16	18.89	6.72	12.17	8.36	10.53	8.74	10.15	9.08	9.81	9.35	9.54	8.97	9.92	8.01	10.88	7.46	11.43
MW-103	6 - 16	19.47	10.81	8.66	11.47	8.0	11.92	7.55	12.3	7.17	12.63	6.84	--	--	12.18	7.29	10.74	8.73
MW-104	5 - 15	17.67	--	--	9.62	8.05	10.09	7.58	10.36	7.31	10.61	7.06	10.31	7.36	10.07	7.6	8.86	8.81
MW-104R	5 - 15	15.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-105	19 - 29	38.84	20.86	17.98	21.55	17.29	22.13	16.71	22.79	16.05	23.18	15.66	22.96	15.88	22.74	16.1	21.39	17.45
MW-106	9 - 19	26.33	11.69	14.64	12.07	14.26	12.33	14	12.48	13.85	12.61	13.72	12.39	13.94	12.27	14.06	11.71	14.62
MW-107	2 - 12	14.63	4.46	10.17	4.48	10.15	4.52	10.11	4.75	9.88	4.51	10.12	4.47	10.16	4.44	10.19	4.35	10.28
MW-108	2 - 12	12.74	4.25	8.49	5.06	7.68	6.59	6.15	6.25	6.49	6.28	6.46	5.86	6.88	4.74	8.0	3.71	9.03
MW-109	3 - 13	24.12	10.73	13.39	11.76	12.36	12.24	11.88	Dry	Dry	Dry	Dry	Dry	Dry	12.78	11.34	10.64	13.48
MW-110	3 - 13	15.58	2.56	13.02	6.57	9.01	7.17	8.41	7.86	7.72	8.37	7.21	6.92	8.66	3.34	12.24	--	--
MW-111	4 - 14	18.95	10.68	8.27	11.11	7.84	11.54	7.41	11.96	6.99	12.34	6.61	11.99	6.96	12.27	6.68	10.51	8.44
MW-111R	5 - 15	18.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-112	3 - 10	18.16	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
MW-112a	4 - 19	17.78	12.67	5.11	12.81	4.97	12.88	4.9	--	--	12.95	4.83	12.8	4.98	--	--	12.43	5.35
MW-113	10 - 20	26.16	11.51	14.65	11.99	14.17	12.22	13.94	12.43	13.73	12.58	13.58	12.3	13.86	12.6	13.56	11.5	14.66
MW-114	7 - 17	29.43	11.53	17.9	12.88	16.55	15.57	13.86	14.24	15.19	14.84	14.59	14.66	14.77	14.31	15.12	12.08	17.35
MW-115/115R	10 - 25	27.15	16.63	10.52	17.42	9.73	17.97	9.18	18.38	8.77	18.81	8.34	18.37	8.78	18.24	8.91	16.18	10.97
MW-116	5 - 15	13.45	8.65	4.8	8.76	4.69	--	--	8.85	4.6	8.91	4.54	8.83	4.62	--	--	8.6	4.85
MW-117S	5 - 20	21.94	--	--	--	--	15.27	6.67	15.7	6.24	16.03	5.91	16.2	5.74	15.95	5.99	13.97	7.97
MW-117T	35 - 45	21.87	--	--	--	--	15.95	5.92	16.38	5.49	16.81	5.06	16.91	4.96	16.58	5.29	14.58	7.29
MW-117D	60 - 70	21.78	--	--	--	--	15.87	5.91	16.26	5.52	16.69	5.09	16.77	5.01	16.44	5.34	14.46	7.32
MW-118S	3 - 14	15.52	--	--	--	--	11.64	3.88	9.84	5.68	10.2	5.32	9.42	6.1	9.4	6.12	8.55	6.97
MW-118T	39.5 - 49.5	15.30	--	--	--	--	10.36	4.94	10.51	4.79	10.74	4.56	10.68	4.62	10.5	4.8	9.93	5.37
MW-118D	70 - 80	15.15	--	--	--	--	10.18	4.97	10.32	4.83	10.55	4.6	10.49	4.66	10.25	4.9	9.55	5.6
MW-119S	5 - 20	11.74	--	--	--	--	--	--	4.91	6.83	4.99	6.75	4.93	6.81	4.85	6.89	4.63	7.11
MW-119T	42 - 47	11.67	--	--	--	--	--	--	6.45	5.22	6.8	4.87	6.72	4.95	6.57	5.1	5.82	5.85
MW-120S	5 - 20	12.54	--	--	--	--	--	--	5.25	7.29	5.35	7.19	4.71	7.83	4.62	7.92	3.51	9.03
MW-120D	28 - 38	12.45	--	--	--	--	--	--	--	--	4.21	8.24	3.94	8.51	3.48	8.97	3.17	9.28
MW-121S	5 - 20	12.44	--	--	--	--	--	--	--	--	--	--	7.36	5.08	7.41	5.03	7.24	5.2
MW-121D	32 - 47	12.81	--	--	--	--	--	--	--	--	--	--	7.92	4.89	7.75	5.06	6.95	5.86
MW-122	4 - 16	16.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GEO-1	5 - 20	25.88	11.38	14.5	11.73	14.15	11.93	13.95	12.1	13.78	12.21	13.67	11.98	13.9	11.91	13.97	11.41	14.47
GEO-2	5 - 20	26.54	11.99	14.55	12.4	14.14	13.6	12.94	12.81	13.73	12.91	13.63	12.63	13.91	12.57	13.97	12.02	14.52
GEO-3	5 - 20	25.64	11.04	14.6	11.94	13.7	---	---	12.7	12.94	12.94	12.7	12.61	13.03	12.54	13.1	10.99	14.65
GEO-4	4 - 19	21.69	10.87	10.82	11.64	10.05	12.09	9.6	12.55	9.14	13.02	8.67	12.64	9.05	12.47	9.22	11.72	9.97
GEO-5	5 - 20	20.14	10.01	10.13	10.79	9.35	11.25	8.89	11.74	8.4	11.18	8.96	11.72	8.42	12.62	7.52	9.92	10.22
GEO-6	5 - 20	17.62	8.25	9.37	8.9	8.72	9.5	8.12	9.92	7.7	10.22	7.4	9.96	7.66	9.96	7.66	8.21	9.41
SH-1	9 - 14	29.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-2	7 - 14	29.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-3	8 - 13	29.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-4	11 - 16	29.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-5	8 - 13	29.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW1	10 - 30	24.02	12.26	11.76	---	---	---	---	--	--	--	--	--	--	--	--	--	--
SH-MW2	10 - 25	24.27	12.74	11.53	13.25	11.02	13.48	10.79	13.72	10.55	14.04	10.23	13.68	10.59	13.85	10.42	12.77	11.5
SH-MW2R	10 - 23	24.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW3	10 - 24	22.31	--	--	11.72	10.59	12.08	10.23	12.43	9.88	12.79	9.52	12.41	9.9	12.05	10.26	11.55	10.76
MW201	11 - 21	27.51	--	--	--	--	--	--	13.71	13.8	13.83	13.68	13.58	13.93	13.5	14.01	12.98	14.53
MW202	10.5 - 20.5	27.82	--	--	--	--	--	--	13.99	13.83	14.08	13.74	13.88	13.94	13.81	14.01	13.41	14.41
MW203	6 - 18	21.80	--	--	--	--	--	--	14.05	7.75	14.39	7.41	13.86	7.94	13.61	8.19	12.86	8.94
MW203R	13 - 23	24.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW301	5-15	13.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW401S	10-20	16.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW401D	34-44	16.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW402	20-30	19.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW403	80-90	16.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW404	72.5-82.5	24.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW405	8-18	15.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW406	4-14	13.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW406	4.45-14.45	25.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

General Notes:
1. ft = feet.
2. bgs = below ground surface.
3. ID = identification.
4 GW = groundwater.
5. NAVD = North American Vertical Datum of 1988.
6. The top of the PVC riser was used as the measuring point for depth to groundwater.
7. "--" = Well not yet installed, abandoned, or not measured.
8. NM = Not measured.

Table 4-3. Groundwater Elevations
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

		Gauging Date:	2/26/2008		3/18/2008		4/15/2008		5/19/2008		7/14/08		8/22/08		10/20/08		1/13/09	
Monitoring Well ID	Well Screen Interval (ft bgs)	Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.90	--	--	--	--	11.42	14.48	11.57	14.33	--	--	--	--	--	--	--	--
MW-2	unknown	25.38	--	--	--	--	--	---	--	--	--	--	--	--	--	--	--	--
MW-3	unknown	25.31	12.05	13.26	12.37	12.94	12.81	12.5	12.99	---	--	--	--	--	--	--	12.49	12.82
MW-101	9 - 19	26.75	--	--	11.85	14.9	12.02	14.73	12.26	14.49	13.11	13.64	--	--	12.61	14.14	12.07	14.68
MW-102	6 - 16	18.89	7.29	11.6	7.17	11.72	8.57	10.32	7.9	10.99	9.51	9.38	8.00	10.89	8.49	10.4	7.50	11.39
MW-103	6 - 16	19.47	10.51	8.96	10.5	8.97	10.82	8.65	11.11	8.36	12.17	7.30	11.17	8.30	11.87	7.6	10.73	8.74
MW-104	5 - 15	17.67	8.61	9.06	8.48	9.19	9.84	7.83	9.25	8.42	9.67	8.00	9.06	8.61	9.72	7.95	8.71	8.96
MW-104R	5 - 15	15.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-105	19 - 29	38.84	20.79	18.05	20.41	18.43	20.91	17.93	21.24	17.6	22.02	16.82	21.40	17.44	21.8	17.04	20.9	17.94
MW-106	9 - 19	26.33	11.51	14.82	11.38	14.95	12.54	13.79	11.72	14.61	11.68	14.65	11.73	14.60	11.64	14.69	11.6	14.73
MW-107	2 - 12	14.63	--	--	4.46	10.17	5.58	9.05	---	---	4.52	10.11	4.41	10.22	4.49	10.14	4.5	10.13
MW-108	2 - 12	12.74	4.61	8.13	3.68	9.06	3.91	8.83	3.99	8.75	5.16	7.58	4.44	8.30	4.71	8.03	3.4	9.34
MW-109	3 - 13	24.12	10.06	14.06	10.02	14.1	11.64	12.48	11.29	12.83	11.87	12.25	11.18	12.94	11.73	12.39	10.43	13.69
MW-110	3 - 13	15.58	0.79	14.79	1.12	14.46	1.57	14.01	2.5	13.08	--	--	3.59	11.99	--	--	1.45	14.13
MW-111	4 - 14	18.95	10.5	8.45	10.54	8.41	16.64	2.31	10.71	8.24	12.23	6.72	10.73	8.22	11.37	7.58	10.55	8.4
MW-111R	5 - 15	18.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-112	3 - 10	18.16	Dry	Dry	--	--	----	---	---	---	--	--	8.33	9.83	--	--	--	--
MW-112a	4 - 19	17.78	12.52	5.26	12.61	5.17	13.71	4.07	12.77	5.01	13.56	4.22	12.93	4.85	13.01	4.77	12.78	5.0
MW-113	10 - 20	26.16	11.28	14.88	11.15	15.01	11.39	14.77	11.62	14.54	12.01	14.15	11.63	14.53	11.99	14.17	11.41	14.75
MW-114	7 - 17	29.43	11.11	18.32	10.75	18.68	12.42	17.01	12.3	17.13	13.24	16.19	12.21	17.22	13.19	16.24	11.25	18.18
MW-115/115R	10 - 25	27.15	15.85	11.3	15.86	11.29	16.45	10.7	16.72	10.43	18.49	8.66	16.78	10.37	17.8	9.35	16.35	10.8
MW-116	5 - 15	13.45	8.68	4.77	8.77	4.68	8.85	4.6	8.88	4.57	9.09	4.36	9.01	4.44	--	--	8.94	--
MW-117S	5 - 20	21.94	13.52	8.42	13.5	8.44	14.22	7.72	14.6	7.34	14.99	6.95	13.90	8.04	14.67	7.27	14.02	7.92
MW-117T	35 - 45	21.87	13.97	7.9	13.9	7.97	14.67	7.2	14.94	6.93	15.68	6.19	15.27	6.60	15.26	6.61	14.45	7.42
MW-117D	60 - 70	21.78	13.86	7.92	13.81	7.97	14.51	7.27	14.89	6.89	15.61	6.17	14.67	7.11	15.27	6.51	14.3	7.48
MW-118S	3 - 14	15.52	8.34	7.18	8.4	7.12	10	5.52	9.38	6.14	9.64	5.88	8.48	7.04	9.05	6.47	8.41	7.11
MW-118T	39.5 - 49.5	15.30	9.49	5.81	9.53	5.77	9.83	5.47	9.94	5.36	10.35	4.95	9.92	5.38	10.19	5.11	9.73	5.57
MW-118D	70 - 80	15.15	9.3	5.85	9.35	5.8	9.64	5.51	9.8	5.35	10.11	5.04	9.70	5.45	9.99	5.16	9.54	5.61
MW-119S	5 - 20	11.74	4.6	7.14	4.56	7.18	4.91	6.83	4.92	6.82	4.94	6.80	6.08	5.66	4.08	7.66	4.41	7.33
MW-119T	42 - 47	11.67	5.63	6.04	5.78	5.89	5.97	5.7	6.1	5.57	6.52	5.15	4.52	7.15	6.78	4.89	5.85	5.82
MW-120S	5 - 20	12.54	4.06	8.48	4.0	8.54	5.1	7.44	4.57	7.97	5.18	7.36	4.61	7.93	4.01	8.53	4.03	8.51
MW-120D	28 - 38	12.45	2.96	9.49	3.11	9.34	3.26	9.19	3.44	9.01	3.82	8.63	2.90	9.55	3.32	9.13	3.18	9.27
MW-121S	5 - 20	12.44	7.36	5.08	7.41	5.03	9.39	3.05	7.29	5.15	9.21	3.23	7.70	4.74	9.01	3.43	7.68	4.76
MW-121D	32 - 47	12.81	6.83	5.98	6.91	5.9	7.31	5.5	7.27	5.54	7.64	5.17	7.30	5.51	9.64	3.17	7.07	5.74
MW-122	4 - 16	16.42	12.98	3.44	13	3.42	13.03	3.39	12.99	3.43	13.15	3.27	13.17	3.25	11.42	5.0	13.15	3.27
GEO-1	5 - 20	25.88	11.22	14.66	--	--	11.25	14.63	11.4	14.48	12.32	13.56	12.00	13.88	12.14	13.74	11.26	14.62
GEO-2	5 - 20	26.54	11.77	14.77	--	--	12.81	13.73	12.01	14.53	11.73	14.81	11.41	15.13	11.58	14.96	11.88	14.66
GEO-3	5 - 20	25.64	10.71	14.93	--	--	10.97	14.67	---	---	12.05	13.59	11.57	14.07	--	--	--	--
GEO-4	4 - 19	21.69	10.36	11.33	10.34	11.35	11.46	10.23	11.13	10.56	11.60	10.09	11.16	10.53	11.89	9.8	10.56	11.13
GEO-5	5 - 20	20.14	9.42	10.72	9.52	10.62	10.8	9.34	10.21	9.93	10.89	9.25	10.28	9.86	11.79	8.35	9.70	10.44
GEO-6	5 - 20	17.62	7.78	9.84	7.86	9.76	9.11	8.51	8.51	9.11	9.20	8.42	7.91	9.71	10.95	6.67	8.02	9.6
SH-1	9 - 14	29.55	--	--	--	--	---	---	---	---	--	--	--	--	--	--	--	--
SH-2	7 - 14	29.64	--	--	--	--	---	---	---	---	--	--	--	--	--	--	--	--
SH-3	8 - 13	29.66	--	--	--	--	---	---	---	---	--	--	--	--	--	--	--	--
SH-4	11 - 16	29.63	--	--	--	--	---	---	---	---	--	--	--	--	--	--	--	--
SH-5	8 - 13	29.63	--	--	--	--	---	---	---	---	--	--	--	--	--	--	--	--
SH-MW1	10 - 30	24.02	--	--	--	--	---	---	---	---	--	--	--	--	--	--	--	--
SH-MW2	10 - 25	24.27	12.49	11.78	12.46	11.81	13.62	10.65	12.89	11.38	11.83	12.44	12.92	11.35	12.01	12.26	12.63	11.64
SH-MW2R	10 - 23	24.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW3	10 - 24	22.31	10.68	11.63	10.65	11.66	11.83	10.48	11.21	11.1	13.27	9.04	11.30	11.01	12.49	9.82	10.87	11.44
MW201	11 - 21	27.51	12.76	14.75	12.64	14.87	12.85	14.66	13.94	13.57	13.31	14.2	13.00	14.51	14.64	12.87	13.27	14.24
MW202	10.5 - 20.5	27.82	13.22	14.6	13.12	14.7	12.73	15.09	13.37	14.45	13.68	14.14	13.41	14.41	13.29	14.53	12.82	15
MW203	6 - 18	21.80	12.03	9.77	12	9.8	13.31	8.49	12.68	9.12	13.15	8.65	12.55	9.25	13.02	8.78	12.25	9.55
MW203R	13 - 23	24.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW301	5-15	13.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW401S	10-20	16.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW401D	34-44	16.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW402	20-30	19.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW403	80-90	16.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW404	72.5-82.5	24.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW405	8-18	15.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW406	4-14	13.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW406	4.45-14.45	25.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

General Notes:
1. ft = feet.
2. bgs = below ground surface.
3. ID = identification.
4 GW = groundwater.
5. NAVD = North American Vertical Datum of 1988.
6. The top of the PVC riser was used as the measuring point for depth to groundwater.
7. "--" = Well not yet installed, abandoned, or not measured.
8. NM = Not measured.

Table 4-3. Groundwater Elevations
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

		Gauging Date:	4/13/09		7/14/09		10/14/09		4/12/10		10/27/10		4/20/11		11/16/11		4/16/12	
Monitoring Well ID	Well Screen Interval (ft bgs)	Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	unknown	25.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	unknown	25.31	12.28	13.03	12.92	12.39	13.19	12.12	--	--	--	--	--	--	--	--	--	--
MW-101	9 - 19	26.75	11.91	14.84	12.2	14.55	12.37	14.38	11.61	15.14	--	--	11.73	15.02	--	--	12.71	14.04
MW-102	6 - 16	18.89	7.35	11.54	7.85	11.04	7.99	10.9	7.11	11.78	--	--	7.04	11.85	--	--	8.53	10.36
MW-103	6 - 16	19.47	10.57	8.9	11.07	8.4	11.34	8.13	10.47	9.00	--	--	10.39	9.08	--	--	11.79	7.68
MW-104	5 - 15	17.67	7.98	9.69	8.84	8.83	9.38	8.29	8.52	9.15	--	--	9.28	8.39	--	--	10.24	7.43
MW-104R	5 - 15	15.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-105	19 - 29	38.84	20.65	18.19	21.4	17.44	21.8	17.04	19.84	19.00	--	--	20.63	18.21	--	--	--	--
MW-106	9 - 19	26.33	11.49	14.84	overflowing	--	overflowing	--	11.16	15.17	--	--	11.39	14.94	--	--	--	--
MW-107	2 - 12	14.63	4.47	10.16	overflowing	--	overflowing	--	4.31	10.32	--	--	4.43	10.2	--	--	--	--
MW-108	2 - 12	12.74	3.73	9.01	4.37	8.37	4.66	8.08	3.86	8.88	--	--	3.56	9.18	--	--	4.72	8.02
MW-109	3 - 13	24.12	10.4	13.72	11.11	13.01	--	--	9.88	14.24	--	--	10.10	14.02	--	--	12.15	11.97
MW-110	3 - 13	15.58	1.1	14.48	2.88	12.7	2.42	13.16	1.39	14.19	--	--	1.67	13.91	--	--	--	--
MW-111	4 - 14	18.95	10.56	8.39	10.67	8.28	10.41	8.54	10.57	8.38	--	--	10.62	8.33	--	--	11.6	7.35
MW-111R	5 - 15	18.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-112	3 - 10	18.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-112a	4 - 19	17.78	12.63	5.15	12.78	5.0	12.58	5.2	12.62	5.16	12.31	5.47	12.14	5.64	12.30	5.48	12.70	5.08
MW-113	10 - 20	26.16	11.23	14.93	11.56	14.6	11.73	14.43	10.93	15.23	--	--	11.00	15.16	--	--	12.11	14.05
MW-114	7 - 17	29.43	10.97	18.46	12.04	17.39	--	--	10.24	19.19	--	--	10.46	18.97	--	--	13.70	15.73
MW-115/115R	10 - 25	27.15	15.4	11.75	16.58	10.57	17.4	9.75	16.43	10.72	--	--	16.22	10.93	--	--	18.51	8.64
MW-116	5 - 15	13.45	8.87	4.58	8.97	4.48	8.76	4.69	8.85	4.6	--	--	8.32	5.13	--	--	--	--
MW-117S	5 - 20	21.94	14.38	7.56	14.66	7.28	14.75	7.19	13.32	8.62	--	--	14.06	7.88	--	--	9.06	12.88
MW-117T	35 - 45	21.87	14.43	7.44	15.03	6.84	15.26	6.61	13.56	8.31	--	--	14.18	7.69	--	--	15.58	6.29
MW-117D	60 - 70	21.78	14.26	7.52	14.89	6.89	15.13	6.65	13.48	8.3	--	--	14.01	7.77	--	--	15.81	5.97
MW-118S	3 - 14	15.52	8.7	6.82	9.43	6.09	9.01	6.51	8.31	7.21	--	--	8.55	6.97	--	--	9.66	5.86
MW-118T	39.5 - 49.5	15.30	9.64	5.66	9.92	5.38	9.99	5.31	9.49	5.81	--	--	9.33	5.97	--	--	10.30	5
MW-118D	70 - 80	15.15	9.47	5.68	9.74	5.41	9.73	5.42	9.29	5.86	--	--	9.15	6.00	--	--	10.11	5.04
MW-119S	5 - 20	11.74	4.21	7.53	4.47	7.27	4.33	7.41	4.33	7.41	--	--	4.08	7.66	--	--	5.14	6.6
MW-119T	42 - 47	11.67	5.8	5.87	6.04	5.63	6.01	5.66	5.68	5.99	--	--	5.55	6.12	--	--	6.50	5.17
MW-120S	5 - 20	12.54	3.85	8.69	4.31	8.23	3.58	8.96	3.98	8.56	--	--	3.65	8.89	--	--	4.78	7.76
MW-120D	28 - 38	12.45	3.11	9.34	3.31	9.14	3.29	9.16	3.04	9.41	--	--	3.18	9.27	--	--	3.87	8.58
MW-121S	5 - 20	12.44	7.57	4.87	7.62	4.82	7.71	4.73	7.67	4.77	--	--	7.12	5.32	--	--	7.26	5.18
MW-121D	32 - 47	12.81	6.98	5.83	7.27	5.54	7.37	5.44	6.87	5.94	--	--	6.77	6.04	--	--	7.69	5.12
MW-122	4 - 16	16.42	13.16	3.26	13.14	3.28	13.12	3.3	13.09	3.33	13.04	3.38	13.06	3.36	13.16	3.26	13.1	3.32
GEO-1	5 - 20	25.88	11.07	14.81	11.31	14.57	11.54	14.34	17.06	8.82	--	--	10.92	14.96	--	--	--	--
GEO-2	5 - 20	26.54	11.7	14.84	11.99	14.55	12.25	14.29	11.41	15.13	--	--	10.55	15.99	--	--	11.81	14.73
GEO-3	5 - 20	25.64	10.86	14.78	11.48	14.16	11.79	13.85	10.27	15.37	--	--	10.62	15.02	--	--	12.21	13.43
GEO-4	4 - 19	21.69	10.21	11.48	11.00	10.69	--	--	10.26	11.43	--	--	--	--	--	--	11.98	9.71
GEO-5	5 - 20	20.14	9.30	10.84	10.08	10.06	10.44	9.7	9.48	10.66	--	--	9.18	10.96	--	--	11.18	8.96
GEO-6	5 - 20	17.62	7.48	10.14	8.18	9.44	8.66	8.96	7.62	10	--	--	7.63	9.99	--	--	9.54	8.08
SH-1	9 - 14	29.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-2	7 - 14	29.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-3	8 - 13	29.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-4	11 - 16	29.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-5	8 - 13	29.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW1	10 - 30	24.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW2	10 - 25	24.27	12.33	11.94	12.77	11.5	13.01	11.26	10.61	13.66	--	--	12.29	11.98	--	--	13.53	10.74
SH-MW2R	10 - 23	24.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW3	10 - 24	22.31	10.52	11.79	11.12	11.19	11.46	10.85	12.39	9.92	--	--	10.46	11.85	--	--	12.00	10.31
MW201	11 - 21	27.51	12.69	14.82	12.94	14.57	13.09	14.42	12.42	15.09	--	--	12.57	14.94	--	--	13.43	14.08
MW202	10.5 - 20.5	27.82	13.15	14.67	13.33	14.49	13.55	14.27	12.94	14.88	--	--	13.02	14.80	--	--	--	--
MW203	6 - 18	21.80	11.5	10.3	12.29	9.51	12.77	9.03	12.03	9.77	--	--	11.83	9.97	--	--	13.85	7.95
MW203R	13 - 23	24.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW301	5-15	13.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW401S	10-20	16.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW401D	34-44	16.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW402	20-30	19.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW403	80-90	16.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW404	72.5-82.5	24.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW405	8-18	15.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW406	4-14	13.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW406	4.45-14.45	25.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

General Notes:
1. ft = feet.
2. bgs = below ground surface.
3. ID = identification.
4 GW = groundwater.
5. NAVD = North American Vertical Datum of 1988.
6. The top of the PVC riser was used as the measuring point for depth to groundwater.
7. "--" = Well not yet installed, abandoned, or not measured.
8. NM = Not measured.

Table 4-3. Groundwater Elevations
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

		Gauging Date:	11/12/12		4/23/13		11/18/13		4/30/14		6/11/14		11/18/14		4/1/15		4/17/15	
Monitoring Well ID	Well Screen Interval (ft bgs)	Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	unknown	25.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	unknown	25.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-101	9 - 19	26.75	--	--	12.41	14.34	--	--	12.03	14.72	--	--	--	--	--	--	--	--
MW-102	6 - 16	18.89	--	--	8.01	10.88	--	--	7.68	11.21	--	--	--	--	6.99	11.9	--	--
MW-103	6 - 16	19.47	--	--	11.22	8.25	--	--	10.96	8.51	--	--	--	--	10.43	9.04	--	--
MW-104	5 - 15	17.67	--	--	9.64	8.03	--	--	9.5	8.17	--	--	--	--	8.04	9.63	--	--
MW-104R	5 - 15	15.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-105	19 - 29	38.84	--	--	21.31	17.53	--	--	--	--	--	--	--	--	--	--	--	--
MW-106	9 - 19	26.33	--	--	--	--	--	--	11.71	14.62	--	--	--	--	--	--	--	--
MW-107	2 - 12	14.63	--	--	--	--	--	--	3.61	11.02	--	--	--	--	--	--	--	--
MW-108	2 - 12	12.74	--	--	4.34	8.4	--	--	4.09	8.65	--	--	--	--	3.31	9.43	--	--
MW-109	3 - 13	24.12	--	--	11.37	12.75	--	--	10.79	13.33	--	--	--	--	9.61	14.51	--	--
MW-110	3 - 13	15.58	--	--	--	--	--	--	2.61	12.97	--	--	--	--	0.60	14.98	--	--
MW-111	4 - 14	18.95	--	--	11.01	7.94	--	--	10.96	7.99	--	--	--	--	10.80	8.15	--	--
MW-111R	5 - 15	18.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-112	3 - 10	18.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-112a	4 - 19	17.78	12.72	5.06	12.80	4.98	13.11	4.67	--	--	12.86	4.92	12.39	5.39	--	--	12.86	4.92
MW-113	10 - 20	26.16	--	--	11.73	14.43	--	--	11.42	14.74	--	--	--	--	10.64	15.52	--	--
MW-114	7 - 17	29.43	--	--	12.24	17.19	--	--	12.05	17.38	--	--	--	--	10.06	19.37	--	--
MW-115/115R	10 - 25	27.15	--	--	17.76	9.39	--	--	17.51	9.64	--	--	--	--	16.50	10.65	--	--
MW-116	5 - 15	13.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-117S	5 - 20	21.94	--	--	14.39	7.55	--	--	13.63	8.31	--	--	--	--	9.66	12.28	--	--
MW-117T	35 - 45	21.87	--	--	15.19	6.68	--	--	14.78	7.09	--	--	--	--	13.95	7.92	--	--
MW-117D	60 - 70	21.78	--	--	15.09	6.69	--	--	14.71	7.07	--	--	--	--	13.88	7.90	--	--
MW-118S	3 - 14	15.52	--	--	9.41	6.11	--	--	9.01	6.51	--	--	--	--	8.04	7.48	--	--
MW-118T	39.5 - 49.5	15.30	--	--	10.12	5.18	--	--	9.94	5.36	--	--	--	--	9.63	5.67	--	--
MW-118D	70 - 80	15.15	10.03	5.12	10.00	5.15	10.73	4.42	9.82	5.33	--	--	10.20	4.95	9.47	5.68	--	--
MW-119S	5 - 20	11.74	--	--	4.70	7.04	--	--	4.31	7.43	--	--	--	--	4.16	7.58	--	--
MW-119T	42 - 47	11.67	--	--	6.25	5.42	--	--	6.11	5.56	--	--	--	--	5.80	5.87	--	--
MW-120S	5 - 20	12.54	--	--	4.26	8.28	--	--	4.19	8.35	--	--	--	--	3.54	9.00	--	--
MW-120D	28 - 38	12.45	--	--	3.40	9.05	--	--	4.41	8.04	--	--	--	--	3.10	9.35	--	--
MW-121S	5 - 20	12.44	--	--	6.93	5.51	--	--	5.95	6.49	--	--	--	--	6.77	5.67	--	--
MW-121D	32 - 47	12.81	7.55	5.26	7.41	5.4	8.13	4.68	7.35	5.46	--	--	7.27	5.54	7.01	5.80	--	--
MW-122	4 - 16	16.42	13.16	3.26	13.14	3.28	13.12	3.3	13.12	3.30	--	--	13.04	3.38	13.15	3.27	--	--
GEO-1	5 - 20	25.88	--	--	11.50	14.38	--	--	11.19	14.69	--	--	--	--	10.69	15.19	--	--
GEO-2	5 - 20	26.54	--	--	12.19	14.35	--	--	11.99	14.55	--	--	--	--	11.34	15.20	--	--
GEO-3	5 - 20	25.64	--	--	11.57	14.07	--	--	11.10	14.54	--	--	--	--	9.92	15.72	--	--
GEO-4	4 - 19	21.69	--	--	11.29	10.4	--	--	11.09	10.6	--	--	--	--	10.17	11.52	--	--
GEO-5	5 - 20	20.14	--	--	10.45	9.69	--	--	10.25	9.89	--	--	--	--	9.29	10.85	--	--
GEO-6	5 - 20	17.62	--	--	8.56	9.06	--	--	8.30	9.32	--	--	--	--	7.84	9.78	--	--
SH-1	9 - 14	29.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-2	7 - 14	29.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-3	8 - 13	29.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-4	11 - 16	29.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-5	8 - 13	29.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW1	10 - 30	24.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW2	10 - 25	24.27	--	--	13.13	11.14	--	--	12.95	11.32	--	--	--	--	12.41	11.86	--	--
SH-MW2R	10 - 23	24.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW3	10 - 24	22.31	--	--	11.43	10.88	--	--	11.23	11.08	--	--	--	--	10.55	11.76	--	--
MW201	11 - 21	27.51	--	--	13.15	14.36	--	--	12.97	14.54	--	--	--	--	12.40	15.11	--	--
MW202	10.5 - 20.5	27.82	--	--	13.54	14.28	--	--	13.32	14.50	--	--	--	--	12.93	14.89	--	--
MW203	6 - 18	21.80	--	--	13.15	8.65	--	--	12.92	8.88	--	--	--	--	12.05	9.75	--	--
MW203R	13 - 23	24.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW301	5-15	13.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW401S	10-20	16.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW401D	34-44	16.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW402	20-30	19.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW403	80-90	16.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW404	72.5-82.5	24.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW405	8-18	15.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW406	4-14	13.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW406	4.45-14.45	25.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

General Notes:
1. ft = feet.
2. bgs = below ground surface.
3. ID = identification.
4 GW = groundwater.
5. NAVD = North American Vertical Datum of 1988.
6. The top of the PVC riser was used as the measuring point for depth to groundwater.
7. "--" = Well not yet installed, abandoned, or not measured.
8. NM = Not measured.

Table 4-3. Groundwater Elevations
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

		Gauging Date:	11/19/15		4/27/16		11/21/16		4/14/17		11/8/17		1/31/18		4/2/18		11/15/18	
Monitoring Well ID	Well Screen Interval (ft bgs)	Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	unknown	25.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	unknown	25.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-101	9 - 19	26.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-102	6 - 16	18.89	--	--	8.02	10.87	--	--	--	--	--	--	7.94	10.95	7.58	11.31	--	--
MW-103	6 - 16	19.47	--	--	11.49	7.98	--	--	--	--	--	--	11.12	8.35	10.81	8.66	--	--
MW-104	5 - 15	17.67	--	--	10.63	7.04	--	--	9.05	8.62	--	--	11.99	5.68	9.21	8.46	--	--
MW-104R	5 - 15	15.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-105	19 - 29	38.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-106	9 - 19	26.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-107	2 - 12	14.63	--	--	4.49	10.14	--	--	4.51	10.12	--	--	4.56	10.07	4.51	10.12	--	--
MW-108	2 - 12	12.74	--	--	4.11	8.63	--	--	3.78	8.96	--	--	4.02	8.72	4.05	8.69	--	--
MW-109	3 - 13	24.12	--	--	11.25	12.87	--	--	9.86	14.26	--	--	11.02	13.10	10.51	13.61	--	--
MW-110	3 - 13	15.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111	4 - 14	18.95	--	--	11.50	7.45	--	--	Dry	Dry	--	--	Dry	Dry	NF	NF	--	--
MW-111R	5 - 15	18.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-112	3 - 10	18.16	--	--	--	--	--	--	6.44	11.72	--	--	--	--	--	--	--	--
MW-112a	4 - 19	17.78	--	--	11.14	6.64	13.12	4.66	12.88	4.90	15.32	2.46	12.85	4.93	--	--	13.09	4.69
MW-113	10 - 20	26.16	--	--	11.65	14.51	--	--	10.83	15.33	--	--	13.90	12.26	11.35	14.81	--	--
MW-114	7 - 17	29.43	--	--	12.45	16.98	--	--	10.70	18.73	--	--	12.89	16.54	11.29	18.14	--	--
MW-115/115R	10 - 25	27.15	--	--	18.23	8.92	--	--	17.33	9.82	--	--	18.17	8.98	17.66	9.49	--	--
MW-116	5 - 15	13.45	--	--	9.34	4.11	--	--	9.18	4.27	--	--	9.22	4.23	9.14	4.31	--	--
MW-117S	5 - 20	21.94	--	--	14.09	7.85	--	--	12.49	9.45	--	--	16.65	5.29	13.07	8.87	--	--
MW-117T	35 - 45	21.87	--	--	15.59	6.28	--	--	14.36	7.51	--	--	17.76	4.11	14.75	7.12	--	--
MW-117D	60 - 70	21.78	--	--	--	--	--	--	12.93	8.85	--	--	12.11	9.67	13.5	8.28	--	--
MW-118S	3 - 14	15.52	--	--	9.30	6.22	--	--	8.37	7.15	--	--	12.17	3.35	8.75	6.77	--	--
MW-118T	39.5 - 49.5	15.30	--	--	10.37	4.93	--	--	9.80	5.5	--	--	12.45	2.85	9.96	5.34	--	--
MW-118D	70 - 80	15.15	11.99	3.16	10.20	4.95	10.42	4.73	9.61	5.54	10.27	4.88	--	--	9.74	5.41	9.23	5.92
MW-119S	5 - 20	11.74	--	--	4.64	7.10	--	--	4.43	7.31	--	--	--	--	4.56	7.18	--	--
MW-119T	42 - 47	11.67	--	--	6.43	5.24	--	--	5.95	5.72	--	--	--	--	6.12	5.55	--	--
MW-120S	5 - 20	12.54	--	--	3.16	9.38	--	--	3.91	8.63	--	--	5.72	6.82	3.97	8.57	--	--
MW-120D	28 - 38	12.45	--	--	3.68	8.77	--	--	3.19	9.26	--	--	6.30	6.15	3.41	9.04	--	--
MW-121S	5 - 20	12.44	--	--	--	--	--	--	7.73	4.71	--	--	7.76	4.68	7.32	5.12	--	--
MW-121D	32 - 47	12.81	8.83	3.98	--	--	7.85	4.96	7.17	5.64	7.75	5.06	7.50	5.31	7.74	5.07	6.79	6.02
MW-122	4 - 16	16.42	13.23	3.19	13.19	3.23	13.21	3.21	13.18	3.24	13.17	3.25	13.19	3.23	13.13	3.29	13.17	3.25
GEO-1	5 - 20	25.88	--	--	11.39	14.49	--	--	10.75	15.13	--	--	--	--	11.11	14.77	--	--
GEO-2	5 - 20	26.54	--	--	12.18	14.36	--	--	11.51	15.03	--	--	--	--	11.83	14.71	--	--
GEO-3	5 - 20	25.64	--	--	--	--	--	--	10.25	15.39	--	--	11.40	14.24	10.79	14.85	--	--
GEO-4	4 - 19	21.69	--	--	11.61	10.08	--	--	10.59	11.1	--	--	11.20	10.49	11.20	10.49	--	--
GEO-5	5 - 20	20.14	--	--	10.94	9.20	--	--	9.81	10.33	--	--	10.44	9.70	10.2	9.94	--	--
GEO-6	5 - 20	17.62	--	--	9.72	7.90	--	--	8.42	9.2	--	--	9.12	8.50	8.67	8.95	--	--
SH-1	9 - 14	29.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-2	7 - 14	29.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-3	8 - 13	29.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-4	11 - 16	29.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-5	8 - 13	29.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW1	10 - 30	24.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW2	10 - 25	24.27	--	--	--	--	--	--	--	--	--	--	--	--	12.84	11.43	--	--
SH-MW2R	10 - 23	24.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW3	10 - 24	22.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW201	11 - 21	27.51	--	--	13.15	14.36	--	--	--	--	--	--	15.36	12.15	13.34	14.17	--	--
MW202	10.5 - 20.5	27.82	--	--	13.53	14.29	--	--	--	--	--	--	15.77	12.05	12.86	14.96	--	--
MW203	6 - 18	21.80	--	--	13.93	7.87	--	--	--	--	--	--	15.76	6.04	12.98	8.82	--	--
MW203R	13 - 23	24.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW301	5-15	13.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW401S	10-20	16.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW401D	34-44	16.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW402	20-30	19.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW403	80-90	16.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW404	72.5-82.5	24.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW405	8-18	15.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW406	4-14	13.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW406	4.45-14.45	25.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

General Notes:
1. ft = feet.
2. bgs = below ground surface.
3. ID = identification.
4 GW = groundwater.
5. NAVD = North American Vertical Datum of 1988.
6. The top of the PVC riser was used as the measuring point for depth to groundwater.
7. "--" = Well not yet installed, abandoned, or not measured.
8. NM = Not measured.

Table 4-3. Groundwater Elevations
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

		Gauging Date:	4/15/19		11/22/19		4/13/20		11/18/20		4/12/21		11/30/21		4/12/22		11/29/22	
Monitoring Well ID	Well Screen Interval (ft bgs)	Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	unknown	25.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	unknown	25.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-101	9 - 19	26.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-102	6 - 16	18.89	7.21	11.68	--	--	7.37	11.52	--	--	8.13	10.76	--	--	--	--	--	--
MW-103	6 - 16	19.47	7.26	12.21	--	--	10.70	8.77	--	--	11.90	7.57	--	--	--	--	--	--
MW-104	5 - 15	17.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-104R	5 - 15	15.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-105	19 - 29	38.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-106	9 - 19	26.33	--	--	--	--	--	--	--	--	NM- Flooded	--	--	--	--	--	--	--
MW-107	2 - 12	14.63	4.74	9.89	--	--	4.42	10.21	--	--	4.48	10.15	--	--	--	--	--	--
MW-108	2 - 12	12.74	3.95	8.79	--	--	3.86	8.88	--	--	4.05	8.69	--	--	--	--	--	--
MW-109	3 - 13	24.12	10.62	13.5	--	--	10.41	13.71	--	--	11.31	12.81	--	--	--	--	--	--
MW-110	3 - 13	15.58	--	--	--	--	--	--	--	--	1.99	13.59	--	--	--	--	--	--
MW-111	4 - 14	18.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111R	5 - 15	18.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-112	3 - 10	18.16	5.05	13.11	--	--	6.75	11.41	--	--	8.06	10.1	--	--	--	--	--	--
MW-112a	4 - 19	17.78	12.3	5.48	13.00	4.78	12.75	5.03	13.08	4.70	13.05	4.73	12.80	4.98	12.55	5.23	12.81	4.97
MW-113	10 - 20	26.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114	7 - 17	29.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-115/115R	10 - 25	27.15	16.96	10.19	--	--	17.89	9.26	--	--	19.4	7.75	--	--	--	--	--	--
MW-116	5 - 15	13.45	8.35	5.1	--	--	9.17	4.28	--	--	9.51	3.94	--	--	9	4.45	--	--
MW-117S	5 - 20	21.94	9.19	12.75	--	--	12.69	9.25	--	--	13.51	8.43	--	--	12.8	9.14	--	--
MW-117T	35 - 45	21.87	14.46	7.41	--	--	16.06	5.81	--	--	16.35	5.52	--	--	16	5.87	--	--
MW-117D	60 - 70	21.78	11.76	10.02	--	--	10.11	11.67	--	--	16.31	5.47	--	--	15.6	6.18	--	--
MW-118S	3 - 14	15.52	9.84	5.68	--	--	8.85	6.67	--	--	8.95	6.57	--	--	9.1	6.42	--	--
MW-118T	39.5 - 49.5	15.30	9.52	5.78	--	--	10.24	5.06	--	--	10.77	4.53	--	--	10.6	4.7	--	--
MW-118D	70 - 80	15.15	9.31	5.84	10.49	4.66	10.09	5.06	10.65	4.5	10.59	4.56	10.55	4.6	10.2	4.95	10.97	4.18
MW-119S	5 - 20	11.74	4.05	7.69	--	--	3.49	8.25	--	--	4.20	7.54	--	--	4.05	7.69	--	--
MW-119T	42 - 47	11.67	5.86	5.81	--	--	6.20	5.47	--	--	6.85	4.82	--	--	6.7	4.97	--	--
MW-120S	5 - 20	12.54	3.85	8.69	--	--	3.35	9.19	--	--	4.30	8.24	--	--	5	7.54	--	--
MW-120D	28 - 38	12.45	3.21	9.24	--	--	3.93	8.52	--	--	3.81	8.64	--	--	4.5	7.95	--	--
MW-121S	5 - 20	12.44	6.8	5.64	--	--	7.72	4.72	--	--	7.73	4.71	--	--	8	4.44	--	--
MW-121D	32 - 47	12.81	6.94	5.87	7.66	5.15	7.40	5.41	8	4.81	8.05	4.76	8.15	4.66	7.7	5.11	8.40	4.41
MW-122	4 - 16	16.42	12.81	3.61	13.15	3.27	13.01	3.41	13.11	3.31	13.02	3.4	13.1	3.32	12.9	3.52	13.15	3.27
GEO-1	5 - 20	25.88	11.1	14.78	--	--	10.40	15.48	--	--	11.01	14.87	--	--	10.85	15.03	--	--
GEO-2	5 - 20	26.54	12.98	13.56	--	--	11.11	15.43	--	--	12.26	14.28	--	--	12.2	14.34	--	--
GEO-3	5 - 20	25.64	11.06	14.58	--	--	10.36	15.28	--	--	ND-Bott at 11.15	--	--	--	--	--	--	--
GEO-4	4 - 19	21.69	10.72	10.97	--	--	11.41	10.28	--	--	12.41	9.28	--	--	--	--	--	--
GEO-5	5 - 20	20.14	7.55	12.59	--	--	11.32	8.82	--	--	12.26	7.88	--	--	--	--	--	--
GEO-6	5 - 20	17.62	8.23	9.39	--	--	11.62	6	--	--	12.21	5.41	--	--	--	--	--	--
SH-1	9 - 14	29.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-2	7 - 14	29.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-3	8 - 13	29.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-4	11 - 16	29.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-5	8 - 13	29.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW1	10 - 30	24.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW2	10 - 25	24.27	12.55	11.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW2R	10 - 23	24.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW3	10 - 24	22.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW201	11 - 21	27.51	12.92	14.59	--	--	12.00	15.51	--	--	12.69	14.82	--	--	--	--	--	--
MW202	10.5 - 20.5	27.82	13.3	14.52	--	--	12.31	15.51	--	--	12.99	14.83	--	--	12.9	14.92	--	--
MW203	6 - 18	21.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW203R	13 - 23	24.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW301	5-15	13.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW401S	10-20	16.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW401D	34-44	16.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW402	20-30	19.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW403	80-90	16.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW404	72.5-82.5	24.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW405	8-18	15.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW406	4-14	13.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW406	4.45-14.45	25.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

General Notes:
1. ft = feet.
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6. The top of the PVC riser was used as the measuring point for depth to groundwater.
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Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

		Gauging Date:	4/17/23		11/7/23		4/1/24		9/20/24		11/14/24		12/13/24		1/20/25		3/6/25	
Monitoring Well ID	Well Screen Interval (ft bgs)	Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	unknown	25.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	unknown	25.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-101	9 - 19	26.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-102	6 - 16	18.89	8.18	10.71	--	--	6.91	11.98	--	--	--	--	--	--	--	--	--	--
MW-103	6 - 16	19.47	--	--	--	--	10.49	8.98	--	--	--	--	--	--	--	--	--	--
MW-104	5 - 15	17.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-104R	5 - 15	15.82	--	--	--	--	15.8	0.02	14.95	0.87	15	0.82	--	--	14.79	1.03	--	--
MW-105	19 - 29	38.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-106	9 - 19	26.33	--	--	--	--	10.45	15.88	--	--	--	--	--	--	--	--	--	--
MW-107	2 - 12	14.63	4.43	10.2	--	--	4.34	10.29	--	--	--	--	--	--	--	--	--	--
MW-108	2 - 12	12.74	4.34	8.4	--	--	3.52	9.22	--	--	--	--	--	--	--	--	--	--
MW-109	3 - 13	24.12	11.49	12.63	--	--	9.75	14.37	--	--	--	--	--	--	--	--	--	--
MW-110	3 - 13	15.58	2.5	13.08	--	--	0.81	14.77	--	--	--	--	--	--	--	--	--	--
MW-111	4 - 14	18.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111R	5 - 15	18.22	--	--	--	--	--	--	--	--	--	--	12.59	5.63	--	--	10.4	7.82
MW-112	3 - 10	18.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-112a	4 - 19	17.78	12.67	5.11	12.64	5.14	12.64	5.14	--	--	13.16	4.62	--	--	--	--	--	--
MW-113	10 - 20	26.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114	7 - 17	29.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-115/115R	10 - 25	27.15	19.61	7.54	--	--	18.12	9.03	--	--	--	--	--	--	18.5	8.65	--	--
MW-116	5 - 15	13.45	9.03	4.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-117S	5 - 20	21.94	11.19	10.75	--	--	11.62	10.32	--	--	--	--	--	--	--	--	--	--
MW-117T	35 - 45	21.87	16.1	5.77	--	--	15.09	6.78	--	--	--	--	--	--	--	--	--	--
MW-117D	60 - 70	21.78	16.07	5.71	--	--	11.61	10.17	--	--	--	--	--	--	--	--	--	--
MW-118S	3 - 14	15.52	9.17	6.35	--	--	8.01	7.51	--	--	--	--	--	--	--	--	--	--
MW-118T	39.5 - 49.5	15.30	10.6	4.7	--	--	9.91	5.39	--	--	--	--	--	--	--	--	--	--
MW-118D	70 - 80	15.15	10.5	4.65	10.62	4.53	9.75	5.4	--	--	11.19	3.96	--	--	--	--	--	--
MW-119S	5 - 20	11.74	5.1	6.64	--	--	4.07	7.67	--	--	--	--	--	--	--	--	--	--
MW-119T	42 - 47	11.67	6.73	4.94	--	--	5.98	5.69	--	--	--	--	--	--	--	--	--	--
MW-120S	5 - 20	12.54	4.31	8.23	--	--	3.42	9.12	--	--	--	--	--	--	--	--	--	--
MW-120D	28 - 38	12.45	3.81	8.64	--	--	3.06	9.39	--	--	--	--	--	--	--	--	--	--
MW-121S	5 - 20	12.44	7.58	4.86	--	--	4.07	8.37	--	--	--	--	--	--	--	--	--	--
MW-121D	32 - 47	12.81	8.05	4.76	NM	NM	7.17	5.64	--	--	8.70	4.11	--	--	--	--	--	--
MW-122	4 - 16	16.42	13.1	3.32	13.12	3.3	13.02	3.4	--	--	13.18	3.24	--	--	--	--	--	--
GEO-1	5 - 20	25.88	11.16	14.72	--	--	9.91	15.97	--	--	--	--	--	--	--	--	--	--
GEO-2	5 - 20	26.54	12.1	14.44	--	--	10.6	15.94	--	--	--	--	--	--	--	--	--	--
GEO-3	5 - 20	25.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GEO-4	4 - 19	21.69	12.83	8.86	--	--	10.71	10.98	--	--	--	--	--	--	--	--	--	--
GEO-5	5 - 20	20.14	12.79	7.35	--	--	10.44	9.7	--	--	--	--	--	--	--	--	--	--
GEO-6	5 - 20	17.62	12.75	4.87	--	--	10.75	6.87	--	--	--	--	--	--	--	--	--	--
SH-1	9 - 14	29.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-2	7 - 14	29.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-3	8 - 13	29.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-4	11 - 16	29.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-5	8 - 13	29.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW1	10 - 30	24.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW2	10 - 25	24.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW2R	10 - 23	24.56	--	--	--	--	13.54	11.02	--	--	--	--	--	--	--	--	--	--
SH-MW3	10 - 24	22.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW201	11 - 21	27.51	13.84	13.67	--	--	11.62	15.89	--	--	--	--	--	--	--	--	--	--
MW202	10.5 - 20.5	27.82	13.2	14.62	--	--	12.11	15.71	--	--	--	--	--	--	--	--	--	--
MW203	6 - 18	21.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW203R	13 - 23	24.97	--	--	--	--	19.15	5.82	--	--	--	--	--	--	--	--	--	--
MW301	5-15	13.24	--	--	--	--	--	--	--	--	--	--	--	--	9.31	3.93	--	--
MW401S	10-20	16.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW401D	34-44	16.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW402	20-30	19.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW403	80-90	16.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW404	72.5-82.5	24.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW405	8-18	15.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW406	4-14	13.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW406	4.45-14.45	25.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

General Notes:
1. ft = feet.
2. bgs = below ground surface.
3. ID = identification.
4 GW = groundwater.
5. NAVD = North American Vertical Datum of 1988.
6. The top of the PVC riser was used as the measuring point for depth to groundwater.
7. "--" = Well not yet installed, abandoned, or not measured.
8. NM = Not measured.

Table 4-3. Groundwater Elevations
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

		Gauging Date:	3/18/25		3/19/25		4/21/25		4/25/25		11/10/25		1/7/26	
Monitoring Well ID	Well Screen Interval (ft bgs)	Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.90	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	unknown	25.38	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	unknown	25.31	--	--	--	--	--	--	--	--	--	--	--	--
MW-101	9 - 19	26.75	--	--	--	--	--	--	--	--	--	--	--	--
MW-102	6 - 16	18.89	--	--	--	--	7.65	11.24	--	--	8.02	10.87	--	--
MW-103	6 - 16	19.47	--	--	--	--	11.2	8.27	--	--	5.56	13.91	--	--
MW-104	5 - 15	17.67	--	--	--	--	--	--	--	--	--	--	--	--
MW-104R	5 - 15	15.82	--	--	--	--	14.85	0.97	--	--	14.91	0.91	--	--
MW-105	19 - 29	38.84	--	--	--	--	--	--	--	--	--	--	--	--
MW-106	9 - 19	26.33	--	--	11.14	15.19	11.43	14.9	--	--	11.6	14.73	--	--
MW-107	2 - 12	14.63	--	--	--	--	4.49	10.14	--	--	4.38	10.25	--	--
MW-108	2 - 12	12.74	--	--	--	--	3.89	8.85	--	--	4.85	7.89	--	--
MW-109	3 - 13	24.12	10.93	13.19	--	--	10.65	13.47	--	--	11.58	12.54	--	--
MW-110	3 - 13	15.58	--	--	--	--	0.92	14.66	--	--	--	--	--	--
MW-111	4 - 14	18.95	--	--	--	--	--	--	--	--	--	--	--	--
MW-111R	5 - 15	18.22	--	--	--	--	10.37	7.85	--	--	11.92	6.30	--	--
MW-112	3 - 10	18.16	--	--	--	--	--	--	--	--	--	--	--	--
MW-112a	4 - 19	17.78	--	--	--	--	--	--	12.39	5.39	12.25	5.53	--	--
MW-113	10 - 20	26.16	--	--	--	--	--	--	--	--	--	--	--	--
MW-114	7 - 17	29.43	--	--	--	--	--	--	--	--	--	--	--	--
MW-115/115R	10 - 25	27.15	--	--	--	--	19.1	8.05	--	--	19.38	7.77	--	--
MW-116	5 - 15	13.45	--	--	--	--	8.71	4.74	--	--	8.46	4.99	--	--
MW-117S	5 - 20	21.94	--	--	--	--	9.89	12.05	--	--	10.85	11.09	--	--
MW-117T	35 - 45	21.87	--	--	--	--	15.89	5.98	--	--	16.00	5.87	--	--
MW-117D	60 - 70	21.78	--	--	--	--	16.03	5.75	--	--	16.00	5.78	--	--
MW-118S	3 - 14	15.52	--	--	--	--	8.86	6.66	--	--	9.14	6.38	--	--
MW-118T	39.5 - 49.5	15.30	--	--	--	--	10.43	4.87	--	--	10.30	5.00	--	--
MW-118D	70 - 80	15.15	--	--	--	--	10.26	4.89	--	--	10.15	5.00	--	--
MW-119S	5 - 20	11.74	--	--	--	--	4.64	7.10	--	--	4.60	7.14	--	--
MW-119T	42 - 47	11.67	--	--	--	--	6.51	5.16	--	--	6.50	5.17	--	--
MW-120S	5 - 20	12.54	--	--	--	--	4.04	8.5	--	--	4.35	8.19	--	--
MW-120D	28 - 38	12.45	--	--	--	--	3.6	8.85	--	--	3.70	8.75	--	--
MW-121S	5 - 20	12.44	--	--	--	--	7.65	4.79	--	--	7.55	4.89	--	--
MW-121D	32 - 47	12.81	--	--	--	--	7.72	5.09	--	--	7.85	4.96	--	--
MW-122	4 - 16	16.42	--	--	--	--	13.12	3.3	--	--	12.00	4.42	11.7	4.72
GEO-1	5 - 20	25.88	--	--	--	--	10.9	14.98	--	--	11.09	14.79	--	--
GEO-2	5 - 20	26.54	--	--	--	--	11.64	14.9	--	--	11.84	14.7	--	--
GEO-3	5 - 20	25.64	--	--	--	--	--	--	--	--	--	--	--	--
GEO-4	4 - 19	21.69	11.63	10.06	--	--	11.85	9.84	--	--	12.86	8.83	--	--
GEO-5	5 - 20	20.14	11.11	9.03	--	--	11.65	8.49	--	--	12.62	7.52	--	--
GEO-6	5 - 20	17.62	--	--	11.08	6.54	11.38	6.24	--	--	12.15	5.47	--	--
SH-1	9 - 14	29.55	--	--	--	--	--	--	--	--	--	--	--	--
SH-2	7 - 14	29.64	--	--	--	--	--	--	--	--	--	--	--	--
SH-3	8 - 13	29.66	--	--	--	--	--	--	--	--	--	--	--	--
SH-4	11 - 16	29.63	--	--	--	--	--	--	--	--	--	--	--	--
SH-5	8 - 13	29.63	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW1	10 - 30	24.02	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW2	10 - 25	24.27	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW2R	10 - 23	24.56	--	--	--	--	14.12	10.44	--	--	14.68	9.88	--	--
SH-MW3	10 - 24	22.31	--	--	--	--	--	--	--	--	--	--	--	--
MW201	11 - 21	27.51	--	--	--	--	12.6	14.91	--	--	12.78	14.73	--	--
MW202	10.5 - 20.5	27.82	--	--	--	--	12.98	14.84	--	--	13.14	14.68	--	--
MW203	6 - 18	21.80	--	--	--	--	--	--	--	--	--	--	--	--
MW203R	13 - 23	24.97	--	--	--	--	19.3	5.67	--	--	19.87	5.10	--	--
MW301	5-15	13.24	--	--	--	--	4.63	8.61	--	--	4.09	9.15	--	--
MW401S	10-20	16.05	--	--	--	--	--	--	--	--	11.15	4.90	--	--
MW401D	34-44	16.16	--	--	--	--	--	--	--	--	11.25	4.91	--	--
MW402	20-30	19.05	--	--	--	--	--	--	--	--	12.24	6.81	--	--
MW403	80-90	16.31	--	--	--	--	--	--	--	--	12.32	3.99	--	--
MW404	72.5-82.5	24.49	--	--	--	--	--	--	--	--	13.42	11.07	--	--
MW405	8-18	15.12	--	--	--	--	--	--	--	--	4.80	10.32	--	--
MW406	4-14	13.19	--	--	--	--	--	--	--	--	6.10	7.09	--	--
MW406	4.45-14.45	25.89	--	--	--	--	--	--	--	--	--	--	11.7	14.19

General Notes:
1. ft = feet.
2. bgs = below ground surface.
3. ID = identification.
4 GW = groundwater.
5. NAVD = North American Vertical Datum of 1988.
6. The top of the PVC riser was used as the measuring point for depth to groundwater.
7. "--" = Well not yet installed, abandoned, or not measured.
8. NM = Not measured.

Table 4-4. Summary of Groundwater Sampling Activities
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sampling Event and Date	Sampled Locations	QA/QC Samples
Quarterly Groundwater Sampling		
5/23/2006	SH-MW1, SH-MW2, SH-MW3, GEO-1, GEO-2, MW-1, MW-	NA
5/24/2006	GEO-3, GEO-4, GEO-5, GEO-6, MW101, MW102 MW103,	Field Duplicate of GEO-3
5/25/2006	SH-4	NA
Groundwater Sampling		
8/7/2006	MW103	NA
Quarterly Groundwater Sampling		
10/4/2006	SH-MW1, SH-MW2, SH-MW3, GEO-3 GEO-4, GEO-5 and	Field Duplicate MW900 (GEO-3)
10/5/2006	GEO-1, GEO-2, MW101, MW102, MW103, MW104 and	NA
Quarterly Groundwater Sampling		
1/16/2007	SH-MW1, SH-MW2, GEO-3, GEO-4, GEO-5, GEO-6,	Field Duplicate MW900 (GEO-6)
1/17/2007	SH-MW3, MW-1, MW-3, GEO-1 and GEO-2	Field Duplicate MW800 (GEO-1)
1/18/2007	MW103, MW106, MW107, MW108, MW109, MW110 and	NA
Groundwater Sampling		
2/20/2007	MW113 and MW114	NA
3/23/2007	MW112A, MW115R AND MW116	NA
Quarterly Groundwater Sampling		
4/12/07	SHMW1, SHMW3, GEO1, GEO2 and MW113	NA
4/13/07	GEO3, MW101, MW102, MW103, MW104, MW106,	Field Duplicate MW900 (MW101)
4/16/07	SHMW2, GEO4, GEO5, GEO6, MW105, MW108, MW109,	Field Duplicate MW901 (GEO6)
5/23/07	MWCS1	NA
Quarterly Groundwater Sampling		
7/18/2007	MW102, MW107, MW108, MW11, MW112A, MW113, MW114, MW115R, M2116 and MW117S	Sample from MW102 was used for MS/MSD Field Duplicate MW900 (MW113) Field Duplicate MW901 (MW116)
7/19/2007	SHMW2, MW104, MW105, MW106, MW117T, MW117D,	NA
7/20/2007	MW118S, MW118T and MW118D	NA
Groundwater Sampling		
8/22/07	MW119S, MW119T, MW120S and MW120D	NA
8/30/07	MW118S, MW118T and MW118D	NA
Quarterly Groundwater Sampling		
10/10/2007	MW102, MW105, MW106, MW107, MW108, MW111, MW112A, MW113, MW114, MW115	Sample from MW102 was used for MS/MSD Field Duplicate MW900 (MW113)
10/11/2007	MW117T, MW117D, MW118S, MW118T, MW118D	NA
10/12/2007	MW116, MW119S, MW119T, MW120S, MW120D, MW201,	Field Duplicate MW901 (MW116)
10/15/2007	MW104, MW117S	NA
10/22/2007	MW121S, MW121D	NA
Quarterly Groundwater Sampling		
1/9/2008	MW105, MW115	NA
1/10/2008	MW102, MW106, MW107, MW108, MW111, MW112A	Sample from MW102 was used for MS/MSD
1/11/2008	MW104, MW113, MW114, MW116, MW117S, MW118S, MW201, MW202	Field Duplicate MW900 (MW113) Field Duplicate MW901 (MW116)
1/15/2008	MW117T, MW117D, MW118T, MW119S, MW120S,	NA
1/16/2008	MW118D, MW119T	NA
1/17/2008	MW120D	NA
Groundwater Sampling		
1/30/2008	MW122	NA
Quarterly Groundwater Sampling		
4/15/2008	GEO-1, SH-MW3, MW3, MW104, MW113, MW116, MW201, MW202, MW203	Field duplicate MW113 (MW900) Field duplicate MW116 (MW901)
4/16/2008	MW117S, MW117T, MW117D, MW118T, MW118D,	NA
4/17/2008	MW102, MW106, MW107, MW108, MW109, MW111, MW112A, MW114, MW115R, MW120D, MW121S,	Sample from MW102 was used for MS/MSD
4/18/2008	MW105	NA

Table 4-4. Summary of Groundwater Sampling Activities
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sampling Event and Date	Sampled Locations	QA/QC Samples
Quarterly Groundwater Sampling		
7/14/2008	MW105, MW112A, MW121S, MW121D, MW122	Field duplicate MW112A (MW900) Field duplicate MW121D (MW901)
7/15/2008	GEO-1, GEO-2, MW-3, MW104,MW118S, MW118T, MW118D, MW119S, MW119T, MW120S, MW120D,	Sample from MW104 was used for MS/MSD
7/16/2008	MW116, MW117S, MW117T, MW117D, MW118D	NA
Quarterly Groundwater Sampling		
10/21/2008	MW104, GEO-1, GEO-2 MW116, MW117S, MW117T, MW117D, MW118S, MW118T, MW118D, MW202, MW-3	Sample from MW104 was used for MS/MSD
10/22/2008	MW105, MW112A, MW119S, MW119T, MW120S, MW120D, MW121S, MW121D, MW122	Field duplicate MW112A (MW901) Field duplicate MW121D (MW900)
Quarterly Groundwater Sampling		
4/15/2008	GEO-1, SH-MW3, MW3, MW104, MW113, MW116, MW201, MW202, MW203	Field duplicate MW113 (MW900) Field duplicate MW116 (MW901)
4/16/2008	MW117S, MW117T, MW117D, MW118T, MW118D,	NA
4/17/2008	MW102, MW106, MW107, MW108, MW109, MW111, MW112A, MW114, MW115R, MW120D, MW121S,	Sample from MW102 was used for MS/MSD
4/18/2008	MW105	NA
Quarterly Groundwater Sampling		
7/14/2008	MW105, MW112A, MW121S, MW121D, MW122	Field duplicate MW112A (MW900) Field duplicate MW121D (MW901)
7/15/2008	GEO-1, GEO-2, MW-3, MW104,MW118S, MW118T, MW118D, MW119S, MW119T, MW120S, MW120D,	Sample from MW104 was used for MS/MSD
7/16/2008	MW116, MW117S, MW117T, MW117D, MW118D	NA
Quarterly Groundwater Sampling		
10/21/2008	MW104, GEO-1, GEO-2 MW116, MW117S, MW117T, MW117D, MW118S, MW118T, MW118D, MW202, MW-3	Sample from MW104 was used for MS/MSD
10/22/2008	MW105, MW112A, MW119S, MW119T, MW120S, MW120D, MW121S, MW121D, MW122	Field duplicate MW112A (MW901) Field duplicate MW121D (MW900)
Quarterly Groundwater Sampling		
1/12/2009	MW105, MW112A, MW121S, MW121D, MW122	Field duplicate MW112A (MW900) Field duplicate MW121D (MW901)
1/13/2009	GEO-1, GEO-2, MW117S, MW117T, MW117D, MW119S,	NA
1/14/2009	MW104, MW-3, MW116, MW118S, MW118T, MW118D	Sample from MW104 was used for MS/MSD
Quarterly Groundwater Sampling		
4/13/2009	GEO-1, GEO-2, MW105, MW112A, MW119S, MW119T, MW121S, MW121D, MW122	Field duplicate MW121D (MW900) Field duplicate MW112A (MW901)
4/14/2009	MW-3, MW104, MW117S, MW117T, MW117D, MW118T,	NA
4/15/2009	MW102, MW116, MW118S	NA
Quarterly Groundwater Sampling		
7/14/2009	MW105, MW112A, MW116, MW118T, MW121S, MW121D, MW202	Field duplicate MW121D (MW900) Field duplicate MW112A (MW901)
7/15/2009	GEO-1, GEO-2, MW-3, MW104,MW117S, MW117T, MS117D, MW118S, MW118D, MW119S, MW119T,	Sample from MW104 was used for MS/MSD
Quarterly Groundwater Sampling		
10/14/2009	GEO-1, GEO-2, MW104, MW105, MW112A, MW116, MW117S, MW117D, MW118S, MW118D, MW121S,	Field duplicate MW112A (MW900) Field duplicate MW118D (MW901)
10/15/2009	MW119T, MW119S, MW120S, MW120D, MW118T	Sample from MW104 was used for MS/MSD
10/16/2009	MW117T, MW3	
Annual Groundwater Sampling		
4/12/2010	MW104, MW105, MW112A, MW118S, MW118T, MW118D, MW121S, MW121D, MW122, MW202	Field duplicate MW112A (MW900) Sample from MW104 was used for MS/MSD
4/13/2010	GEO-1, GEO-2, SH-MW3, MW116, MW117S, MW117T, MW117D, MW119S, MW119T, MW120S, MW120D	Field duplicate MW116 (MW901)
Semi-Annual Groundwater Sampling		
10/27/2010	MW112A, MW122	NA

Table 4-4. Summary of Groundwater Sampling Activities
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sampling Event and Date	Sampled Locations	QA/QC Samples
Annual Groundwater Sampling		
4/20/2011	MW105, MW112A, MW117D, MW118S, MW118T,	Field duplicate MW112A (MW900)
4/21/2011	GEO-2, SH-MW3, MW104, MW116, MW117S, MW117T	Field duplicate MW116 (MW901) Sample from MW104 was used for MS/MSD
4/22/2011	GEO-1, MW119S, MW119D, MW120S, MW120D, MW202	
Semi-Annual Groundwater Sampling		
11/16/2011	MW112A, MW122	NA
Annual Groundwater Sampling		
4/16/2012	SH-MW-3, MW112A, MW117S, MW117T, MW117D, MW118D, MW119S, MW119T, MW120S, MW120D, MW121S, MW121D	Field duplicate MW112A (MW900)
4/17/2012	GEO-1, MW104, MW105, MW116, MW118T, MW122, MW202	Field duplicate MW116 (MW901) Sample from MW104 was used for MS/MSD
Semi-Annual Groundwater Sampling		
11/12/2012	MW112A, MW118D, MW121D, MW122	NA
Annual Groundwater Sampling		
4/23/2013	SH-MW-3, MW105, MW117T, MW119S, MW119T, MW120S, MW120D, MW121S, MW121D, MW122, MW202	NA
4/24/2013	GEO-1, MW104, MW112A, MW116, MW117S, MW117D, MW118S, MW118T, MW118D	Field duplicate MW116 (MW900) Field duplicate MW112A (MW901) Sample from MW104 was used for MS/MSD
5/1/2013	GEO-2	
Semi-Annual Groundwater Sampling		
11/18/2013	MW112A, MW118D, MW121D, MW122	NA
Kleinfelder Groundwater Sampling		
2/6/2014	KE-114-140206, KE-115-140206, KE-116-140206, KE-117-140206, MW-SR-140206, WashSW-140206	Sample from WashSW-140206 was a grab sample from the base of an open excavation.
4/8/2014	KE-202D, KE-202S	NA
4/9/2014	KE-117	NA
4/14/2014	KE-204, KE-206, KE-208	NA
4/15/2014	KE-205, KE-207, KE-209, KE-210	NA
Annual Groundwater Sampling		
4/30/2014	MW104, MW121S, MW121D, MW122, SH-MW-3, GEO-1, GEO-2	Sample from MW104 was used for MS/MSD
5/1/2014	MW117S, MW117T, MW117D, MW118S, MW118D, MW118T, MW119S, MW119T, MW120S, MW120D, MW116	Field duplicate MW116 (MW900)
6/11/2014	MW112A	NA
Semi-Annual Groundwater Sampling		
11/18/2014	MW112A, MW118D, MW121D, MW122	NA
Annual Groundwater Sampling		
4/2/2015	MW104, MW116, MW117S, MW117T, MW117D, MW118S, MW118D, MW119S, MW119T, MW121S, MW121D, MW122, SH-MW-3, GEO-1, GEO-2	Sample from MW104 was used for MS/MSD Field duplicate MW116 (MW901)
4/3/2015	MW118T, MW120S, MW120D	
4/17/2015	MW112A	Field duplicate MW112A (MW900)
Semi-Annual Groundwater Sampling		
11/19/2015	MW118D, MW121D, MW122	NA
Annual Groundwater Sampling		
4/28/2016	MW1112A, MW117S, MW117T, MW117D, MW118S, MW118T, MW118D, MW119S, MW119T, MW120S, MW120D, MW121S, MW121D, MW122, GEO-1	Field duplicate MW116 (MW900) Field duplicate GEO-2 (MW901) Sample from MW104 was used for MS/MSD
4/29/2016	MW104, MW116, MW202, GEO-2	

Table 4-4. Summary of Groundwater Sampling Activities
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
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Sampling Event and Date	Sampled Locations	QA/QC Samples
Semi-Annual Groundwater Sampling		
11/21/2016	MW112A, MW118D, MW121D, MW122	NA
Annual Groundwater Sampling		
4/17/2017	MW104, MW116, MW117S, MW117T, MW117D, MW118S, MW118T, MW118D, MW121S, MW121D, MW122, MW202, GEO-1	Field duplicate MW116 (MW900) Field duplicate MW112A (MW901) Sample from MW104 was used for MS/MSD
4/18/2017	MW112A, MW119S, MW119T, MW120S, MW120D, GEO-2	
4/28/2017	SH-MW-2, MW104	
Semi-Annual Groundwater Sampling		
11/8/2017	MW118D, MW121D, MW122	
11/10/2017	MW112A	NA
Annual Groundwater Sampling		
4/3/2018	MW117S, MW117T, MW117D, MW118S, MW118T, MW118D, MW119S, MW119T, MW121S, MW121D, MW122	Field duplicate MW116 (MW900) Field duplicate GEO-2 (MW901) Sample from MW104 was used for MS/MSD
4/4/2018	GEO-1, GEO-2, MW104, MW112A, MW116, MW120S, MW120D, MW202, SH-MW-2	
Semi-Annual Groundwater Sampling		
11/15/2018	MW 112A MW118D, MW121D, MW122	NA
Annual Groundwater Sampling		
4/15/2019	MW112A, MW117S, MW117T, MW117D, MW118S, MW118D, MW121S, MW121D, MW122	Field duplicate MW116 (MW900) Field duplicate GEO-2 (MW901) Sample from SHMW2 was used for MS/MSD
4/16/2019	MW116, MW118T, MW119S, MW119T, MW120S, MW120D, MW202, SHMW2, GEO-1, GEO-2	
Semi-Annual Groundwater Sampling		
11/23/2019	MW 112A, MW118D, MW121D, MW122	NA
Annual Groundwater Sampling		
4/16/2020	MW112A, MW117S, MW117T, MW117D, MW118S, MW118D, MW121S, MW121D, MW122	Field duplicate MW116 (MW900) Field duplicate GEO-2 (MW901) Sample from MW202 was used for MS/MSD
4/17/2020	MW116, MW118T, MW119S, MW119T, MW120S, MW120D, MW202, GEO-1, GEO-2	
Semi-Annual Groundwater Sampling		NA
11/18/2020	MW 112A, MW118D, MW121D, MW122	
Annual Groundwater Sampling		
4/13/2021	MW112A, MW117S, MW117T, MW117D, MW118S, MW118T, MW118D, MW121S, MW121D, MW122	Field duplicate MW116 (MW900) Field duplicate GEO-2 (MW901) Sample from GEO-1 was used for MS/MSD
4/14/2021	MW116, MW119S, MW119T, MW120S, MW120D, MW202, GEO-1, GEO-2	
Semi-Annual Groundwater Sampling		NA
11/30/2021	MW 112A, MW118D, MW121D, MW122	
Annual Groundwater Sampling		
4/12/2022	MW118S, MW118T, MW118D, MW117T, MW117S, MW117D	Field duplicate MW116 (MW900) Field duplicate GEO-2 (MW901) Sample from GEO-1 was used for MS/MSD
4/13/2022	MW120S, MW120D, MW119S, MW119T, MW121S, MW121D, GEO-1, MW122, MW202, MW116	
4/14/2022	GEO-2 and MW112A	
Semi-Annual Groundwater Sampling		NA
11/29/2022	MW 112A, MW118D, MW121D, MW122	

Table 4-4. Summary of Groundwater Sampling Activities
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Sampling Event and Date	Sampled Locations	QA/QC Samples
Annual Groundwater Sampling		
4/17/2023	MW118S, MW118T, MW118D, MW117T, MW117S, MW117D, MW122, MW119S, MW119T	Field duplicate MW116 (MW900) Field duplicate GEO-2 (MW901) Sample from GEO-1 was used for MS/MSD
4/18/2023	MW120S, MW120D, MW121S, MW121D GEO-1, GEO-2, MW202, MW116	
5/11/2023	MW112A	
Additional Sampling for PSS		NA
9/15/2023	MW108	
Semi-Annual Groundwater Sampling		NA
11/7/2023	MW 112A, MW118D, MW121D, MW122	
Annual Groundwater Sampling		
4/2/2024	MW107, MW112A, MW118D, MW118S, MW118T, MW117D, MW117S, MW117T, MW119S, MW119T, GEO-1, MW108, MW120S	Field duplicate MW116 (MW900) Field duplicate GEO-2 (MW901) Sample from GEO-1 was used for MS/MSD
4/3/2024	MW102, MW103, MW106, MW116, MW120D, MW121S, MW121D, MW201, MW202, GEO-5, GEO-6, SH-MW2R	
4/4/2024	MW104R, MW109, MW122,GEO-2, GEO-4, MW203R	
Semi-Annual Groundwater Sampling		NA
9/20/2024	MW104R	
11/14/2024	MW104R, MW 112A, MW118D, MW121D, MW122	
Site Investigation Sampling		NA
1/20/2025	MW104R, MW301, MW115R	
Annual Groundwater Sampling		
3/7/2025	MW111R	Field duplicate MW116 (MW900) Field duplicate GEO-2 (MW901) Sample from GEO-1 was used for MS/MSD
3/18/2025	GEO-4, GEO-5	
3/19/2025	MW106, MW109, GEO-6	
4/22/2025	MW107, MW108, MW115R, MW117S, MW117D, MW117T, MW118S, MW118D, MW118T, MW119S, MW119T, MW120S, MW120D	
4/23/2025	MW102, MW103, MW104R, MW121S, MW121D, MW201, MW202, MW301, GEO-1, GEO-2	
4/24/2025	MW111R, MW116, MW122, MW203R, SH-MW2R	
4/25/2025	MW112A	
Semi-Annual Groundwater Sampling		
11/10/2025	MW117S, MW117T, MW117T, MW118S, MW118T, MW118D, MW203R,MW403, MW405, MW406, MW	Field duplicate MW116 (MW900) Field duplicate GEO-2 (MW901) Field duplicate MW404 (MW902) Sample from GEO-1 was used for MS/MSD
11/11/2025	GEO-2, MW102, MW103, MW112A MW116, MW119S, MW119T MW120S, MW120D, MW121S, MW121D, MW301, MW402, MW900, MW901	
11/12/2025	GEO-4, GEO-5, GEO-6, MW106, MW107, MW108, MW111R MW122, MW201, MW202, MW404, SHMW-2, MW902	
11/13/2025	GEO-1, MW109, MW115R, MW401S, MW401D	

General Notes:
1. NA = not applicable.
2. QA/QC = quality assurance/quality check.
3. MS/MSD = matrix spike/matrix spike duplicate.
4. VOC = volatile organic compound.
5. All groundwater samples submitted for VOC testing. Selected samples collected in January 2007, April 2010, April 2011, April 2012, April 2013, April 2014, May 2014, June 2014, April 2015, April 2016, April 2017, April 2018, April 2019, April 2020, April 2021, April 2022, April and May 2023, April 2024, April 2025, and November 2025 were also submitted for natural attenuation parameter testing.

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
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Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	GEO-1	GEO-1	GEO-1	GEO-1	GEO1	GEO1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1
					Sample Name:	GEO-1 5 to 20 8/16/04 GeoInsight	GEO-1 5 to 20 5/23/06 GEI	GEO-1 5 to 20 10/5/06 GEI	GEO-1 5 to 20 1/17/07 GEI	MW800 (FD) 5 to 20 1/17/07 GEI	GEO1 5 to 20 4/12/07 GEI	GEO-1 5 to 20 4/15/08 GEI	GEO-1 5 to 20 7/15/08 GEI	GEO-1 5 to 20 10/21/08 GEI	GEO-1 5 to 20 1/13/09 GEI	GEO-1 5 to 20 4/13/09 GEI	GEO-1 5 to 20 7/15/09 GEI	GEO-1 5 to 20 10/14/09 GEI	GEO-1 5 to 20 4/13/10 GEI	GEO-1 5 to 20 4/22/11 GEI	GEO-1 5 to 20 4/17/12 GEI	GEO-1 5 to 20 4/24/13 GEI	GEO-1 5 to 20 4/30/14 GEI	GEO-1 5 to 20 4/2/15 GEI	GEO-1 5 to 20 4/28/16 GEI	GEO-1 5 to 20 4/17/17 GEI	GEO-1 5 to 20 4/4/18 GEI	GEO-1 5 to 20 4/16/19 GEI	GEO-1 5 to 20 4/17/20 GEI	GEO-1 5 to 20 4/14/21 GEI	GEO-1 5 to 20 4/13/22 GEI	GEO-1 5 to 20 4/18/23 GEI	GEO-1 5 to 20 4/2/24 GEI	GEO-1 5 to 20 4/23/25 GEI	GEO-1 5 to 20 11/13/25 GEI
					Well Screen Interval (ft bgs):																														
					Sample Date:																														
					Collected By:	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																																
Acetone			50000	50000	< 400	< 5.0	< 5.0	< 5.0	< 5.0	9.7	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Acrylonitrile			NS	NS	< 20	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT								NT	NT
Benzene			1000	10000	< 20	< 0.50	< 0.50	< 0.50	< 0.50	0.27 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.5	< 0.50	< 0.50
Bromobenzene			NS	NS	< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								< 2.0	< 2.0	< 2.0
Bromochloromethane			NS	NS	< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								< 2.0	< 2.0	< 2.0
Bromodichloromethane			6	50000	< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			700	50000	< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								< 2.0	< 2.0	< 2.0
Bromomethane			7	800	< 40	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								< 2.0	< 2.0	< 2.0 K-
2-Butanone (MEK)			50000	50000	< 200	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0
n-Butylbenzene			NS	NS	< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								< 2.0	< 2.0	< 2.0
sec-Butylbenzene			NS	NS	< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								< 2.0	< 2.0	< 2.0
tert-Butylbenzene			NS	NS	< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								< 2.0	< 2.0	< 2.0
Carbon disulfide			NS	NS	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Carbon tetrachloride			2	5000	< 20	3.6	1.4	2.3	2.3	5.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000	< 20	0.76 J	0.86 J	0.76 J	0.84 J	0.77 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			NS	NS	< 40	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			50	20000	< 20	< 1.0	< 1.0	0.60 J	0.61 J	1.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			NS	NS	< 40	< 2.0	3.7	< 2.0	1.8 J	6.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Chlorotoluene			NS	NS	< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								< 2.0	< 2.0	< 2.0
4-Chlorotoluene			NS	NS	< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								< 2.0	< 2.0	< 2.0
1,2-Dibromo-3-chloropropane			NS	NS	< 40	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								< 2.0	< 2.0	< 2.0 G
Dibromochloromethane			20	50000	< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								< 1.0	< 1.0	< 1.0
1,2-Dibromoethane			2	50000	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								< 2.0	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS	< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								< 2.0	< 2.0	< 2.0
1,2-Dichlorobenzene			8000	2000	< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000	< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene			60	8000	< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS	< 40	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								< 2.0	< 2.0	< 2.0
1,1-Dichloroethane			2000	20000	< 20	4.3	2.9	5.4	5.6	10.6	< 1.0	0.38 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane			5	20000	< 20	< 1.0	< 1.0	< 1.0	< 1.0	1.3	< 1.0	13.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000	39.8	989	1330 E	247	241	8980	3.0	26.2	1.4	1.3	1.7	< 1.0	2.0	< 1.0	7.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethylene			20	50000	< 20	4.3	2.3	3.3	< 1.0	8.7	< 1.0	1.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethylene			90	50000	< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane			3	50000	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane					< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								< 2.0	< 2.0	< 2.0
2,2-Dichloropropane					< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								< 2.0	< 2.0	< 2.0
1,1-Dichloropropene					< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								< 2.0	< 2.0	< 2.0
cis-1,3-Dichloropropene			10	200	< 20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50								< 0.4	< 0.40	< 0.40
trans-1,3-Dichloropropene			10	200	< 20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50								< 0.4	< 0.40	< 0.40
Diethyl ether (Ethyl ether)					NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								< 2.0	< 2.0	< 2.0
Di-Isopropyl ether					NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								< 2.0	< 2.0	< 2.0
1,4-Dioxane			5000	50000	NT	< 25	< 25 R	< 25	< 25	< 25	< 25	< 25	< 25	< 25 J+	< 25	< 25	< 25	< 25	367	< 25	< 50	< 25 K-	< 25	< 100	< 630	< 130	< 130	< 500	< 250	< 250	< 250	< 250	< 250	< 250 K-
Ethylbenzene			20000	5000	< 20	< 1.0	< 1.0	< 1.0	< 1.0	0.41 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000	< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10		< 10	< 10	< 10	< 0.6	< 0.60	< 0.60
2-Hexanone			NS	NS	< 200	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			NS	NS	< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								< 2.0	< 2.0	< 2.0
4-Isopropyltoluene			NS	NS	< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl tert-butyl ether			50000	50000	< 20	64.2	5.3 J+	2.5	2.7	6.9 J+	7.9	< 1.0	< 1.0	0.26 J	1.1	< 1.0	4.8	< 1.0	< 1.0	< 1.0	< 1.0 K-	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
4-Methyl-2-pentanone (MIBK)			50000	50000	< 200	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								< 5.0	< 5.0	< 5.0
Methylene chloride			2000	50000	< 200	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			700	20000	< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
n-Propylbenzene			NS	NS	< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								< 2.0	< 2.0	< 2.0
Styrene			100	6000	< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								< 1.0	< 1.0	< 1.0
Tert-amyl methyl ether			NS	NS	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								< 2.0	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000	< 20	5.7	3.0 J	5.7	5.8	15.6	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane			9	50000	< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50											< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			20	30000	1880	18600	19500	17300	18000	48500	135	268	115	76.1	64.3	71.5	698	79.2	2580	171	85.1	252	162	134	1340	70.9	32.9	240	48	25	23	18	33 K+	37 K+
Tetrahydrofuran			NS	NS	NT	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 G	< 10	< 10	< 50	< 10	< 10	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Toluene			50000	40000	< 20	1.2	0.72 J	1.1	0.99 J	2.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS	< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								< 2.0	< 2.0	< 2.0
1,2,4-Trichlorobenzene			200	50000	< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								< 2.0	< 2.0	< 2.0
1,1,1-Trichloroethane (TCA)			4000	20000	1720	19100	9620 J+	13300	14200	42500 J+	29.5	217	8.5	9.2	10.0	5.9	16.6 J+	7.0	12.2	3.7	2.1	2.3	3.0	1.3	9.1	< 1.0	< 1.0	5.8	< 1.0	< 1.0	< 1.0	< 1.0	1.3	< 1.0
1,1,2-Trichloroethane			900	50000	< 20	< 1.0	< 1.0	0.94 J	0.99 J	3.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000	898	10000	5530	9090	9660	30600	18.9	70.6	11.0	8.9	8.0	10.1	31.2	8.2	35.6	6.5	4.8	5.9	7.1	5.4	2.2 J	3.60	1.90	3.0	1.7	2.00	2.1	1.8	3.1	2.5
Trichlorofluoromethane			NS	NS	< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0											< 2.0	< 2.0	< 2.0
1,2,3-Trichloropropane			NS	NS	< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								< 2.0	< 2.0	< 2.0
1,2,4-Trimethylbenzene			NS	NS	< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								< 2.0	< 2.0	< 2.0
1,3,5-Trimethylbenzene			NS	NS	< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								< 2.0	< 2.0	< 2.0
Vinyl chloride			2	50000	< 20	< 1.0	< 1.0	< 1.0	< 1.0

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	GEO-2	GEO-2	GEO-2	GEO-2	GEO2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2
					Sample Name:	GEO-2 5 to 20 8/16/04	GEO-2 5 to 20 5/23/06	GEO-2 5 to 20 10/5/06	GEO-2 5 to 20 1/17/07	GEO2 5 to 20 4/12/07	GEO-2 5 to 20 7/15/08	GEO-2 5 to 20 10/22/08	GEO-2 5 to 20 1/13/09	GEO-2 5 to 20 4/13/09	GEO-2 5 to 20 7/15/09	GEO-2 5 to 20 10/14/09	GEO-2 5 to 20 4/13/10	GEO-2 5 to 20 4/21/11	GEO-2 5 to 20 5/1/13	GEO-2 5 to 20 4/30/14	GEO-2 5 to 20 4/2/15	GEO-2 5 to 20 4/29/16	MW901 (FD) 5 to 20 4/29/16	GEO-2 5 to 20 4/18/17	GEO-2 5 to 20 4/4/18	MW901 (FD) 5 to 20 4/4/2018	GEO-2 5 to 20 4/16/2019	MW901 (FD) 5 to 20 4/16/2019	GEO-2 5 to 20 4/17/2020	MW901 (FD) 5 to 20 4/17/2020	GEO-2 5 to 20 4/14/2021	MW901 5 to 20 4/14/2021	GEO-2 5 to 20 4/14/2022
					Well Screen Interval (ft bgs):																												
					Sample Date:																												
					Collected By:	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																														
Acetone			50000	50000	487	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0
Acrylonitrile			NS	NS	< 5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT											
Benzene			1000	10000	< 5.0	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.5
Bromobenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
Bromochloromethane			NS	NS	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
Bromodichloromethane			6	50000	< 5.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform			700	50000	< 5.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0											
Bromomethane			7	800	< 10 G	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0											
2-Butanone (MEK)			50000	50000	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0
n-Butylbenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
sec-Butylbenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
tert-Butylbenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
Carbon disulfide			NS	NS	< 25	< 5.0	< 5.0	4.5 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride			2	5000	< 5.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene			200	1000	< 5.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane			NS	NS	< 10	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroform			50	20000	< 5.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	0.62 J	< 1.0	0.60 J	0.84 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.56 J	0.76 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane			NS	NS	< 10	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0
2-Chlorotoluene			NS	NS	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
4-Chlorotoluene			NS	NS	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
1,2-Dibromo-3-chloropropane			NS	NS	< 10	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
Dibromochloromethane			20	50000	< 5.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0											
1,2-Dibromoethane			2	50000	< 5.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0											
Dibromomethane (Methylene bromide)			NS	NS	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
1,2-Dichlorobenzene			8000	2000	< 5.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0											
1,3-Dichlorobenzene			6000	50000	< 5.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0											
1,4-Dichlorobenzene			60	8000	< 5.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane			NS	NS	< 10	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0											
1,1-Dichloroethane			2000	20000	< 5.0	2.2	2.0	< 5.0	2.5	1.1	< 1.0	< 1.0	0.29 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane			5	20000	< 5.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene			80	30000	23.2	14.2	26.3	25.2	11.5	13.4	8.4	7.0	17.0	6.5	10.8	13.8	3.7	7.8	3.8	3.1	4.3	4.9	1.5	1.1	1.1	<1.0	<1.0	2.3	2.6	1.7	1.8	2.6
cis-1,2-Dichloroethylene			20	50000	< 5.0	< 1.0	1.6	9.0	< 1.0	< 1.0	< 1.0	< 1.0	2.8	< 1.0	< 1.0	3.1	2.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethylene			90	50000	< 5.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane			3	50000	< 5.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane					< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
2,2-Dichloropropane					< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
1,1-Dichloropropene					< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
cis-1,3-Dichloropropene			10	200	< 5.0	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50											
trans-1,3-Dichloropropene			10	200	< 5.0	< 0.50	< 0.50	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50											
Diethyl ether (Ethyl ether)					NT	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
Di-Isopropyl ether					NT	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0											
1,4-Dioxane			5000	50000	NT	< 25	< 25 R	< 130	< 25	< 25	< 25	< 25 J+	< 25	< 25	< 25	< 25	< 25	< 25	< 25 K-	< 25	< 25	< 25	< 25	<130	<130	<130	<130	<130	<250	<250	<250	<250	<250
Ethylbenzene			20000	5000	< 5.0	< 1.0	< 1.0	3.1 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachlorobutadiene			50	3000	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
2-Hexanone			NS	NS	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isopropyl benzene			NS	NS	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
4-Isopropyltoluene			NS	NS	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methyl tert-butyl ether			50000	50000	37.6	79.9	12.8 J+	9.8	16.5	< 1.0	5.9	0.45 J	< 1.0	0.29 J	0.56 J	< 1.0	< 1.0	4.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Methyl-2-pentanone (MIBK)			50000	50000	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
Methylene chloride			2000	50000	< 5.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Naphthalene			700	20000	< 5.0	< 5.0	< 5.0	8.3 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0
n-Propylbenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
Styrene			100	6000	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
Tert-amyl methyl ether			NS	NS	NT	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Tert-butyl ethyl ether			NS	NS	NT	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0									
1,1,1,2-Tetrachloroethane			10	50000	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane			9	50000	< 5.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50													
Tetrachloroethylene (PCE)			20	30000	285	131	693	1420	120	115	140	110	263 G	202	167	480	66.4	140	119	76.3	147	145	50.7	48.5	45.4	26.3	25.6	120	130	86	86	96
Tetrahydrofuran			NS	NS	NT	< 10	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 G	< 10	< 10	< 10	<10	<10	<10	<10	<10	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene			50000	40000	< 5.0	< 1.0	< 1.0	3.4 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	1.8	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
1,2,4-Trichlorobenzene			200	50000	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
1,1,1-Trichloroethane (TCA)			4000	20000	490	125	376	867	147 J+	70.5	25.5	22.5	110	29.7	37.5 J+	61.9	4.3	16.0	15.5	11.4	18.4	20.4	5.2	3.7	3.6	1.1	1.1	9.2	9.5	11	11	17
1,1,2-Trichloroethane			900	50000	< 5.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethylene (TCE)			5	5000	60	27.3	170	602	36.0	22.8	20.9	19.7	99.7	31.7	33.4	103	14.7	14.3	12.2	9.9	12.7	12.8	7.1	6.1	6.0	4.4	4.2	6.1	6.4	3.8	3.8	4.2
Trichlorofluoromethane			NS	NS	< 5.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0													
1,2,3-Trichloropropane			NS	NS	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
1,2,4-Trimethylbenzene			NS	NS	< 5.0	< 5.0	< 5.0	4.7 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
1,3,5-Trimethylbenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
Vinyl chloride			2	50000	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m,p-Xylene			3000	5000	< 10	< 1.0	< 1.0	11.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene			3000	5000	< 5.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Xylene			3000	5000	ND	< 1.0	< 1.0	14.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-3	GEO-3	GEO-3	GEO-3	GEO-3	GEO-3	GEO3	GEO-4	GEO-4	GEO-4	GEO-4	GEO-4	GEO-4	GEO-4	GEO-4	GEO-5	GEO-5	GEO-5
					Sample Name:	MW901	GEO-2	MW901	GEO-2	MW901	GEO-2	MW901	GEO-2	MW901	GEO-3	GEO-3	MW900 (FD)	GEO-3	MW900 (FD)	GEO-3	GEO3	GEO-4	GEO-4	GEO-4	GEO-4	GEO-4	GEO-4	GEO-4	GEO-4	GEO-5	GEO-5	GEO-5
					Well Screen Interval (ft bgs):	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	5 to 20	5 to 20	5 to 20
					Sample Date:	4/14/2022	4/18/2023	4/18/2023	4/4/2024	4/4/2024	4/23/2025	4/23/2025	11/11/2025	11/11/2025	8/16/04	5/24/06	5/24/06	10/4/06	10/4/06	1/16/07	4/13/07	8/16/04	5/24/06	10/4/06	1/16/07	4/16/07	4/4/24	3/18/25	11/12/25	8/16/04	5/24/06	10/4/06
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GeoInsight	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																														
Acetone			50000	50000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10.0	< 1000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2000	< 5.0	< 5.0	< 100	< 50	<120	<200	<1000	< 2000	< 5.0	< 5.0
Acrylonitrile			NS	NS									NT	NT	< 5.0	NT	NT	NT	NT	NT	NT	< 100	NT	NT	NT	NT	NT	NT	NT	< 100	NT	NT
Benzene			1000	10000		<0.5	<0.5	<0.5	<0.5	<0.5	<0.50	<0.50	<0.50	<0.50	< 5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 100	< 0.50	< 0.50	< 10	< 5.0	<12	<20	<100	< 100	< 0.50	< 0.50
Bromobenzene			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0
Bromochloromethane			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0
Bromodichloromethane			6	50000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0
Bromoform			700	50000		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10	<50	<80	<100	< 100	< 1.0	< 1.0
Bromomethane			7	800		<2.0	<2.0	<2.0	<2.0	<2.0 G	<2.0 G	<2.0 G	<2.0 G	<2.0 G	< 100	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 200	< 2.0	< 2.0	< 40	< 20	<50	<80	<100	< 200	< 2.0	< 2.0
2-Butanone (MEK)			50000	50000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1000	< 5.0	< 5.0	< 100	< 50	<120	<200	<1000	< 1000	< 5.0	< 5.0
n-Butylbenzene			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0
sec-Butylbenzene			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0
tert-Butylbenzene			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0
Carbon disulfide			NS	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 50	<50	<80	<500	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			2	5000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0
Chlorobenzene			200	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0
Chloroethane			NS	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 100	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 200	< 2.0	< 2.0	< 40	< 20	<50	<80	<200	< 200	< 2.0	< 2.0
Chloroform			50	20000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	2.5	< 20	< 10	<25	<40	<200	< 100	< 1.0	0.62 J
Chloromethane			NS	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 100	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 200	< 2.0	< 2.0	< 40	< 20	<50	<80	<200	< 200	< 2.0	< 2.0
2-Chlorotoluene			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<200	< 100	< 5.0	< 5.0
4-Chlorotoluene			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<200	< 100	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	< 5.0	< 5.0	< 100	< 50	<50	<80	<200	< 200	< 5.0	< 5.0
Dibromochloromethane			20	50000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<200	< 100	< 1.0	< 1.0
1,2-Dibromoethane			2	50000		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 100	< 2.0	< 2.0	< 40	< 20	<50	<80	<200	< 100	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<200	< 100	< 5.0	< 5.0
1,2-Dichlorobenzene			8000	2000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0
1,4-Dichlorobenzene			60	8000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 100	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 200	< 2.0	< 2.0	< 40	< 20	<50	<80	<100	< 200	< 2.0	< 2.0
1,1-Dichloroethane			2000	20000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	11.6	11.6	2.6	< 1.0	< 100	2.7	7.1	< 20	< 10	<25	<40	<100	< 100	3.0	9.7
1,2-Dichloroethane			5	20000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000	2.3	3.3	2.7	1.2	1.1	<1.0	<1.0	1.5	1.6	108	< 1.0	< 1.0	59.3	59.1	11.5	1.4	< 100	6.1	17.8	< 20	< 10	<25	<40	<100	< 100	8.9	32.7
cis-1,2-Dichloroethylene			20	50000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.8	3.5	< 5.0	< 1.0	< 1.0	2.8	2.6	1.2	< 1.0	< 100	6.3	16.7	< 20	5.5 J	<25	<40	<100	< 100	12.5	35.2
trans-1,2-Dichloroethylene			90	50000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0
1,2-Dichloropropane			3	50000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 100	< 2.0	< 2.0	< 40	< 20	<25	<40	<100	< 100	< 2.0	< 2.0
1,3-Dichloropropane						<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0
2,2-Dichloropropane						<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0
1,1-Dichloropropene						<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0
cis-1,3-Dichloropropene			10	200		<0.4	<0.4	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	< 5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 100	< 0.50	< 0.50	< 10	< 50	<10	<16	<100	< 100	< 0.50	< 0.50
trans-1,3-Dichloropropene			10	200		<0.4	<0.4	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	< 5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 100	< 0.50	< 0.50	< 10	< 50	<10	<16	<100	< 100	< 0.50	< 0.50
Diethyl ether (Ethyl ether)						<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	NT	< 5.0	< 5.0
Di-Isopropyl ether						<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 40	< 20	<50	<80	<100	NT	< 2.0	< 2.0
1,4-Dioxane			5000	50000	<250	<250	<250	<250	<250	<250	<250	<50	<50	NT	< 25	< 25	< 25 R	< 25 R	< 25 R	< 25	< 25	NT	< 25	< 25 R	< 5.0	< 250	<6200	<10000	<10000	NT	< 25	< 25 R
Ethylbenzene			20000	5000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0
Hexachlorobutadiene			50	3000		<0.6	<0.6	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50	<15	<24	<100	< 100	< 5.0	< 5.0
2-Hexanone			NS	NS	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1000	< 5.0	< 5.0	< 100	< 50	<120	<200	<200	< 1000	< 5.0	< 5.0
Isopropyl benzene			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0
4-Isopropyltoluene			NS	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 1.0	< 1.0	1.2 J+	1.1 J+	< 1.0	< 1.0	< 100	< 1.0	1.5 J+	< 20	< 10	<50	<80	<100	< 100	1.3	3.3 J+
4-Methyl-2-pentanone (MIBK)			50000	50000		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1000	< 5.0	< 5.0	< 100	< 50	<120	<200	<200	< 1000	< 5.0	< 5.0
Methylene chloride			2000	50000	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 2.0	< 2.0	< 5.0	< 2.0	< 5.0	< 2.0	< 1000	< 2.0	< 2.0	< 40	< 20	<50	<80	<100	< 1000	< 2.0	< 2.0
Naphthalene			700	20000	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0
n-Propylbenzene			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0
Styrene			100	6000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50	<25	<40	<100	< 100	< 5.0	< 5.0
Tert-amyl methyl ether			NS	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 40	< 20	<50	<80	<100	NT	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 40	< 20	<50	<80	<100	NT	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	0.84 J	< 100	< 50	<25	<40	<100	< 100	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane			9	50000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0
Tetrachloroethylene (PCE)			20	30000	84	120	120	58	57	34 K+	34 K+	69	69	4020	162	157	2720	2340	529	93.2	12900	6690	24100	16700	8240	3600	6500	8500	14400	2440	12900
Tetrahydrofuran			NS	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 10	< 10	< 10	< 10	< 10	< 10	NT	< 10	< 10	< 200	< 100	<50	<80	<100	NT	< 10	< 10
Toluene			50000	40000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0
1,2,4-Trichlorobenzene			200	50000		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000	16	19	16	3.9	3.8	2.3	2.2	7.1	6.9	204	4.0	4.4	78.2 J+	77.2 J+	16.2	< 1.0	1170	113	321 J+	113	70.9	<25	<40	<100	646	246	652
1,1,2-Trichloroethane			900	50000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000	4.0	7.8	6.8	7.1	7.1	4.6	4.7	7.8	8.0	507	14.4	14.1	209	207	70.2	10.0	720	86.8	235	129	74.8	26	47	<100	404	146	446
Trichlorofluoromethane			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10	<50	<80	<100	< 100	< 1.0	< 1.0
1,2,3-Trichloropropane			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0
1,2,4-Trimethylbenzene			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0
1,3,5-Trimethylbenzene			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0
Vinyl chloride			2	50000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0
m,p-Xylene			3000	5000	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 1.0	< 1.0	< 20	< 10	<50	<80	<200	< 200	< 1.0	< 1.0
o-Xylene			3000	5000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0
Total Xylene			3000	5000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	ND	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	ND	< 1.0	< 1.0

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	GEO-5	GEO-5	GEO-5	GEO-5	GEO-5	GEO-6	GEO-6	GEO-6	GEO-6	GEO-6	GEO6	GEO-6	GEO-6	GEO-6	GEO-6	MW-1	MW-1	MW-1	MW-1	MW1	MW-101	MW101	MW101	MW101	MW101	MW-102	MW102	MW102	MW102
					Sample Name:	GEO-5	GEO-5	GEO-5	GEO-5	GEO-5	GEO-6	GEO-6	GEO-6	GEO-6	MW900 (FD	GEO-6	MW901 (FD	GEO-6	GEO-6	GEO-6	MW-1	MW-1	MW-1	MW-1	MW1	MW-101	MW101	MW101	MW101	MW101	MW-102	MW102	MW102	MW102
					Well Screen Interval (ft bgs):	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	Unknown	Unknown	Unknown	Unknown	Unknown	9 to 19	9 to 19	9 to 19	9 to 19	9 to 19	6 to 16	6 to 16	6 to 16	6 to 16
					Sample Date:	1/16/07	4/16/07	4/3/24	3/18/25	11/12/25	8/16/04	5/24/06	10/4/06	1/16/07	1/16/07	4/16/07	4/16/07	4/3/24	3/19/25	11/12/25	7/1/02	8/9/04	5/23/06	1/17/07	4/17/07	5/24/06	10/5/06	1/17/07	4/13/07	4/13/07	5/24/06	10/5/06	1/16/07	4/13/07
					Collected By:	GEI	GEI	GEI	GEI	GEI	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	SHA	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																															
Acetone			50000	50000		< 250	< 5.0	<5.0	<25	<10	< 200	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<50	<50	<50	< 5.000	< 40000	40.0	36.1	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Acrylonitrile			NS	NS		NT	NT	NT	NT	NT	< 10	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 5.000	< 2000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000		< 25	< 0.50	<0.5	<2.5	<2.5	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	<5	<5.0	<5.0	< 5.00	< 2000	2.0	< 0.50	< 250	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene			NS	NS		< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20	<20	< 25000	< 2000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromochloromethane			NS	NS		< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20	<20	< 25000	< 2000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane			6	50000		< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10	<10	< 5.00	< 2000	< 1.0	< 1.0	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			700	50000		< 50	< 1.0	<2.0	<10	<10	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<20	<20	<20	< 5.00	< 2000	< 1.0	< 1.0	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			7	800		< 100	< 2.0	<2.0	<10	<10	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	<20	<20	<20	< 10000	< 4000	< 2.0	< 2.0	< 1000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Butanone (MEK)			50000	50000		< 250	< 5.0	<5.0	<25	<25	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<50	<50	<50	< 5.000	< 4000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Butylbenzene			NS	NS		< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20	<20	< 5.00	< 2000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene			NS	NS		< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20	<20	< 5.00	< 2000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene			NS	NS		< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20	<20	< 25000	< 2000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			NS	NS		< 250	< 5.0	<2.0	<10	<10	< 5.0	< 5.0	< 5.0	0.81 J	< 5.0	< 10	< 5.0	<20	<20	<20	< 5.000	< 10000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			2	5000		< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10	<10	< 5.00	< 2000	19.0	22.4	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000		< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10	<10	< 5.00	< 2000	1.1	1.2	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			NS	NS		< 100	< 2.0	<2.0	<10	<10	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	<20	<20	<20	< 10000	< 4000	< 2.0	< 2.0	< 1000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			50	20000		< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10	<10	< 7500	< 2000	3.7	1.6	< 500	1.8	< 1.0	< 1.0	< 1.0	1.8	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			NS	NS		< 100	< 2.0	<2.0	<10	<10	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	<20	<20	<20	< 25000	< 4000	< 2.0	14.6	< 1000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Chlorotoluene			NS	NS		< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20	<20	< 25000	< 2000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene			NS	NS		< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20	<20	< 25000	< 2000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS		< 250	< 5.0	<2.0	<10	<10	< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20	<20	< 25000	< 4000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane			20	50000		< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10	<10	< 5.00	< 2000	< 1.0	< 1.0	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane			2	50000		< 100	< 2.0	<2.0	<10	<10	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	<20	<20	<20	< 25000	< 2000	< 2.0	< 2.0	< 1000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS		< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20	<20	< 5.000	< 2000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene			8000	2000		< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10	<10	< 25000	< 2000	< 1.0	< 1.0	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000		< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10	<10	< 25000	< 2000	< 1.0	< 1.0	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene			60	8000		< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10	<10	< 25000	< 2000	< 1.0	< 1.0	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS		< 100	< 2.0	<2.0	<10	<10	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	<20	<20	<20	< 5.000	< 4000	< 2.0	< 2.0	< 1000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1-Dichloroethane			2000	20000		< 50	< 1.0	<1.0	<5.0	<5.0	< 10	2.0	4.4	1.7	1.6	0.92 J	1.1	<10	<10	<10	< 7500	< 2000	59.8	59.9	< 500	< 1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0	0.88 J	< 1.0	< 1.0
1,2-Dichloroethane			5	20000		< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10	<10	< 5.00	< 2000	4.0	< 1.0	< 500	< 1.0	< 1.0	< 1.0	3.9 G	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000		< 50	< 1.0	<1.0	<5.0	<5.0	< 10	4.6	11.0	4.4	3.2	2.8	3.8	<10	<10	<10	< 5.00	< 2000	11500	1260	2290	8.7	21.1	14.1	< 1.0	4.6 G	6.3	50.2	30	< 1.0
cis-1,2-Dichloroethylene			20	50000		< 50	< 1.0	<1.0	<5.0	<5.0	14.8	9.1	15.4	7.7	6.9	5.3	6.3	<10	<10	<10	< 5.00	< 2000	24.3	7.7	< 500	< 1.0	< 1.0	1.3	< 1.0	2.1 G	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethylene			90	50000		< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10	<10	< 7500	< 2000	< 1.0	< 1.0	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane			3	50000		< 100	< 2.0	<1.0	<5.0	<5.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	<10	<10	<10	< 18000	< 2000	4.5	< 2.0	< 1000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3-Dichloropropane						< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20	<20	< 25000	< 2000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane						< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20	<20	< 25000	< 2000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene						< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20	<20	< 25000	< 2000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene			10	200		< 25	< 0.50	<0.4	<2.0	<2.0	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	<4	<4.0	<4.0	< 5.00	< 2000	< 0.50	< 0.50	< 250	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene			10	200		< 25	< 0.50	<0.4	<2.0	<2.0	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	<4	<4.0	<4.0	< 5.00	< 2000	< 0.50	< 0.50	< 250	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl ether (Ethyl ether)						< 250	< 5.0	<2.0	<10	<10	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20	<20	< 25000	NT	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Di-Isopropyl ether						< 100	< 2.0	<2.0	<10	<10	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	<20	-	<10	NT	NT	< 2.0	< 2.0	< 1000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,4-Dioxane			5000	50000		< 1300	< 25	<250	<1200	<1200	NT	< 25	< 25 R	< 25	< 25	< 5.0	< 25	<2500	<2500	<1000	NT	NT	< 25 R	< 25	< 13000	< 25	< 25 R	< 25	< 25	< 25	< 25 R	< 25	< 25
Ethylbenzene			20000	5000		< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10	<10	< 5.00	< 2000	2.8	4.4	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000		< 250	< 5.0	<0.6	<3.0	<3.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<6	<6.0	<6.0	< 25000	< 2000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone			NS	NS		< 250	< 5.0	<5.0	<25	<25	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<50	<50	<50	< 5.000	< 20000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			NS	NS		< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20	<20	< 5.00	< 2000	< 5.0	0.84 J	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene			NS	NS		< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20	<20	< 5.00	< 2000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000		< 50	< 1.0	<2.0	<10	<10	< 10	1.3	1.9 J+	1.2	1.2	0.80 J	0.81 J	<20	<20	<20	< 10000	< 2000	< 1.0 J+	< 1.0	< 500	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	4.5 J+	2.7	< 1.0
4-Methyl-2-pentanone (MIBK)			50000	50000		< 250	< 5.0	<5.0	<25	<25	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<50	<50	<50	< 5.000	< 20000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride			2000	50000		< 100	< 2.0	<2.0	<10	<10	< 100	< 2.0	< 2.0	< 2.0	1.3 J	2.5 J	< 2.0	<20	<20	<20	< 5.000	< 20000	< 2.0	< 2.0	< 1000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			700	20000		< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20	<20	< 5.000	< 2000	< 5.0	2.4 J	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene			NS	NS		< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20	<20	< 5.00	< 2000	0.42 J	1.8 J	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene			100	6000		< 250	< 5.0	<1.0	<5.0	<5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<10	<10	<10	< 5.00	< 2000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tert-amyl methyl ether			NS	NS		< 100	< 2.0	<2.0	<10	<10	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	<20	<20	<20	NT	NT	< 2.0	< 2.0	< 1000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS		< 100	< 2.0	<2.0	<10	<10	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	<20	<20	<20	NT	NT	< 2.0	< 2.0	< 1000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000		< 250	< 5.0	<1.0	<5.0	<5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<10	<10	<10	< 5.00	< 2000	38.1	22.8	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane			9	50000		< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10	<10	< 5.00	< 2000	< 1.0	< 1.0	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			20	30000		254 F+	17.9	100	690	170	782	675	1980	632	594 F+	618	497	1900	1300	2500	52000	24200	34400	74900	49600	163	171	192	94.0	90.7	200	898	692	20.3
Tetrahydrofuran			NS	NS		< 500	< 10	<2.0	<10	<10	NT	< 10	< 10	< 10	< 10	< 20	< 10	<20	<20	<20	NT	NT	< 10	< 10	< 5000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene			50000	40000		< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10	<10	< 7500	< 2000	19.6	15.3	< 500	< 1.0	< 1.0	0.38 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS		< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20	<20	< 25000	< 2000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene			200	50000		< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20	<20	< 25000	< 2000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000		< 50	< 1.0	<1.0	<5.0	<5.0	27.8	42.5	77.2 J+	33.7	25.3	21.2	26.8	<10	<10	<10	290000	112000	255000	135000	151000	110	146	131	50.5 J+	43.0 J+	< 1.0	65.7 J+	32.6	< 1.0
1,1,2-Trichloroethane			900	50000		< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10	<10	< 7500	< 2000	85.8	16.2	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000		< 50	< 1.0	2.0	10.0	2.8	122	78.8	131	75.3	56.5	55.5	70.5	37	35	58	220000	128000	175000	120000	103000	50.5	30.2	38.4	47.2	45.7	15.6	89.1	57.0	2.0
Trichlorofluoromethane			NS	NS		< 50	< 1.0	<2.0	<10	<10	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<20	<20	<20	< 25000	< 2000	< 1.0	< 1.0	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane			NS	NS		< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20	<20	< 5.000	< 2000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene			NS	NS		< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20	<20	< 25000	< 2000	1.3 J	4.2 J	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene			NS	NS		< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20	<20	< 25000	< 2000	1.3 J	4.8 J	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride			2	50000		< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10	<10	< 10000	< 2000	< 1.0	1.2	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m,p-Xylene			3000	5000		< 50	< 1.0	<2.0	<10	<10	< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<20	<20	<20	< 5.00	< 4000	4.8	5.9	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene			3000	5000		< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10	<10	< 5.00	< 2000	9.2	13.8	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylene			3000	5000		< 50	< 1.0	<1.0	<5.0	<5.0	ND	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10	<10	ND	ND	14.0	19.7	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:					MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW103	MW103	MW103	MW-103	MW103	MW103	MW103	MW103	MW103	MW104	MW104	MW104	MW104	MW104	MW104	MW104	MW104	MW104	MW104	MW104
Sample Name:					MW102 6 to 16 7/18/07 GEI	MW102 6 to 16 10/10/07 GEI	MW102 6 to 16 1/10/08 GEI	MW102 6 to 16 4/17/08 GEI	MW102 6 to 16 4/3/24 GEI	MW102 6 to 16 4/23/25 GEI	MW102 6 to 16 11/11/25 GEI	MW-103 6 to 16 5/24/06 GEI	MW103 6 to 16 8/7/06 GEI	MW103 6 to 16 10/5/06 GEI	MW-103 6 to 16 1/16/07 GEI	MW103 6 to 16 1/18/07 GEI	MW103 6 to 16 4/13/07 GEI	MW103 6 to 16 4/3/24 GEI	MW103 6 to 16 4/23/25 GEI	MW103 6 to 16 11/11/25 GEI	MW-104 5 to 15 5/23/06 GEI	MW104 5 to 15 10/5/06 GEI	MW104 6 to 16 1/16/07 GEI	MW104 5 to 15 4/13/07 GEI	MW104 5 to 15 7/19/07 GEI	MW104 5 to 15 10/15/07 GEI	MW104 5 to 15 1/11/08 GEI	MW104 5 to 15 4/15/08 GEI	MW104 5 to 15 7/15/08 GEI	MW104 5 to 15 10/21/08 GEI	MW104 5 to 15 1/14/09 GEI	MW104 5 to 15 4/14/09 GEI	MW104 5 to 15 7/15/09 GEI	MW104 5 to 15 10/14/09 GEI
Well Screen Interval (ft bgs):																															
Sample Date:																															
Collected By:																															
Analyte	**Method**	**Units**	**Method 1 GW-2 Standard**	**Method 1 GW-3 Standard**																													
Volatile Organic Compounds (VOCs)	8260	µg/l																															
Acetone			50000	50000	NT	< 10	< 5.0	< 5.0	<5.0	<5.0	<10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<5.0	<5.0	<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	4.0 J	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
Acrylonitrile			NS	NS	NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000	NT	< 1.0	< 0.50	< 0.50	<0.5	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	<0.5	<0.50	<0.50	< 0.50	0.60	< 0.50	< 0.50	NT	0.43 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene			NS	NS	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromochloromethane			NS	NS	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane			6	50000	NT	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	0.31 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			700	50000	NT	< 2.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			7	800	NT	< 4.0	< 2.0	< 2.0	<2.0	<2.0	<2.0 K-	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Butanone (MEK)			50000	50000	NT	< 10	< 5.0	< 5.0	<5	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<5	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0 J+	< 5.0	< 5.0
n-Butylbenzene			NS	NS	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	0.37 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene			NS	NS	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene			NS	NS	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			NS	NS	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			2	5000	< 1.0	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000	NT	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			NS	NS	< 2.0	< 4.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	<2.0	<2.0	<2.0	2.7	10.3	6.1	4.7	6.9	5.6	2.3	< 2.0	3.9	5.9	< 2.0	< 2.0	2.8	4.2
Chloroform			50	20000	NT	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	0.65 J	0.62 J	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			NS	NS	NT	< 4.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Chlorotoluene			NS	NS	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene			NS	NS	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane			20	50000	NT	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane			2	50000	NT	< 4.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene			8000	2000	NT	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000	NT	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	0.27 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene			60	8000	NT	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS	NT	< 4.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1-Dichloroethane			2000	20000	0.42 J	2.1	4.1	0.51 J	<1.0	<1.0	<1.0	27.2	3.7	13.0	11.5	10.1	7.9	<1.0	<1.0	<1.0	33.0	98.9	57.1	46.8	68.3	86.6	38.7	33.0	71.5	74.3	33.2	37.9	47.1	73.9
1,2-Dichloroethane			5	20000	< 1.0	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000	23.6	39.7	51.8	22.2 C+	<1.0	<1.0	<1.0	13.4	2.0	6.5	4.3	4.3	8	<1.0	<1.0	<1.0	3.3	9.4	2.9	10	2.6	4.5	1.7	1.8	5.1	2.4	2.6	2.1	2.2	3.6
cis-1,2-Dichloroethylene			20	50000	< 1.0	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	3.0	2.5	< 1.0	< 1.0	< 5.0	<1.0	<1.0	1	198	435	244	250	194	279	148	145	203	192 F-	189	236 F-	212	334
trans-1,2-Dichloroethylene			90	50000	< 1.0	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	2.2	9.3	6.2	3.6	2.5	4.1	3.5	2.0	3.2	2.7	2.4	3.0	2.6	2.6
1,2-Dichloropropane			3	50000	NT	< 4.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	<1.0	<1.0	<1.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3-Dichloropropane					NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane					NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene					NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene			10	200	NT	< 1.0	< 0.50	< 0.50	<0.4	<0.4	<0.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	<0.4	<0.4	<0.4	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene			10	200	NT	< 1.0	< 0.50	< 0.50	<0.4	<0.40	<0.40	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	<0.4	<0.40	<0.40	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl ether (Ethyl ether)					NT	< 10	< 5.0	< 5.0	<2	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Di-Isopropyl ether					NT	< 4.0	< 2.0	< 2.0	<2	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	<2	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,4-Dioxane			5000	50000	NT	< 50	< 25	< 25	<250	<250	<50	< 25	< 25	< 25 R	< 25	< 25	< 130	<250	<250	<50	< 25	< 25 R	< 25	< 25	NT	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Ethylbenzene			20000	5000	NT	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000	NT	< 10	< 5.0	< 5.0	<0.6	<0.60	<0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<0.6	<0.60	<0.60	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone			NS	NS	NT	< 10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			NS	NS	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene			NS	NS	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000	NT	17.3	24.2	1.7 C+	<2.0	<2.0	<2.0	< 1.0	< 1.0	0.65 J J+	< 1.0	< 1.0	< 5.0	<2.0	<2.0	<2.0	< 1.0	10.0 J+	1.0	0.93 J J+	NT	7.2	1.1	0.72 J	3.9	2.4	0.63 J	< 1.0	0.98 J	1.8
4-Methyl-2-pentanone (MIBK)			50000	50000	NT	< 10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride			2000	50000	NT	4.3	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			700	20000	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0
n-Propylbenzene			NS	NS	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene			100	6000	NT	< 10	< 5.0	< 5.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0
Tert-amyl methyl ether			NS	NS	NT	< 4.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS	NT	< 4.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000	NT	< 10	< 5.0	< 5.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0 F+	< 5.0	< 25	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane			9	50000	< 1.0	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			20	30000	524	685	606	438 C+	13	5.5	35	2600	592	1510	1200 F+	1250 F-	1510	43	27	53	60.4	160	29.3	39.6	31.2	49.3	12.1	22.4	16.8	22.8	22.6	19.3	22.0	16.9
Tetrahydrofuran			NS	NS	NT	< 20	< 10	< 10	<2.0	<2.0	<2.0	< 10	< 10	< 10	< 10	< 10	< 50	<2.0	<2.0	<2.0	< 10	< 10	< 10	< 10	NT	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene			50000	40000	NT	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene			200	50000	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000	26.3	69.8	121	21.9 C+	<1.0	<1.0	<1.0	34.0	4.4	14.4 J+	17.6	21.0	< 5.0	<1.0	<1.0	<1.0	21.0	138 J+	23.2	5.6 J+	28.0	89.8	12.5	10.8	42.9	26.1	13.3	11.8 F+	19.2	24.3 J+
1,1,2-Trichloroethane			900	50000	< 1.0	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000	46.1	61.0	65.3	35.6 C+	1.3	<1.0	3.3	109	24.0	60.4	37.0	38.0	58.7	3.5	2.3	5.5	63.4	110	49.1	51.4	40.4	< 1.0	27.0	34.9	37.1	38.2	44.8	53.7 F+	44.4	43.7
Trichlorofluoromethane			NS	NS	NT	< 2.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane			NS	NS	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene			NS	NS	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	0.34 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene			NS	NS	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride			2	50000	< 1.0	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW104	MW104	MW104	MW104	MW104	MW104	MW104	MW104	MW104	MW104	MW104R	MW104R	MW104R	MW-104R	MW-104R	MW-104R	MW105	MW105	MW105	MW105	MW105	MW105	MW105	MW105	MW105	MW105	MW105	MW105	MW105
					Sample Name:	MW104 5 to 15 4/12/10 GEI	MW104 5 to 15 4/21/11 GEI	MW104 5 to 15 4/17/12 GEI	MW104 5 to 15 4/24/13 GEI	MW104 5 to 15 4/30/14 GEI	MW104 5 to 15 4/2/15 GEI	MW104 5 to 15 4/29/16 GEI	MW104 5 to 15 4/17/17 GEI	MW104 5 to 15 4/28/17 GEI	MW104 5 to 15 4/4/18 GEI	MW104R 5 to 15 4/4/24 GEI	MW104R 5 to 15 9/20/24 GEI	MW104R 5 to 15 11/14/24 GEI	MW-104R 5 to 15 1/20/25 GEI	MW-104R 5 to 15 4/23/25 GEI	MW-104R 5 to 15 11/10/25 GEI	MW105 19 to 29 5/24/06 GEI	MW105 19 to 29 10/5/06 GEI	MW105 19 to 29 1/17/07 GEI	MW105 19 to 29 4/16/07 GEI	MW105 19 to 29 7/19/07 GEI	MW105 19 to 29 10/10/07 GEI	MW105 19 to 29 1/9/08 GEI	MW105 19 to 29 4/18/08 GEI	MW105 19 to 29 7/14/08 GEI	MW105 19 to 29 10/22/08 GEI	MW105 19 to 29 1/12/09 GEI	MW105 19 to 29 4/13/09 GEI	MW105 19 to 29 7/14/09 GEI	MW105 19 to 29 10/14/09 GEI
					Well Screen Interval (ft bgs):																														
					Sample Date:																														
					Collected By:																														
Volatile Organic Compounds (VOCs)	8260	µg/l											NT																					
Acetone			50000	50000		< 5.0 J+	9.0	4.8	< 10	< 10	< 10	< 10		<10	<10	<50	< 25	< 25	<25	<25	<100	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
Acrylonitrile			NS	NS		NT	NT	NT	NT	NT	NT	NT				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		<0.50	<0.50	<5	< 2.5	< 2.5	<2.5	<2.5	<2.5	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				<20	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromochloromethane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				<20	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane			6	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		<1.0	<1.0	<10	< 1.0	< 1.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			700	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				<20	< 10	< 10	<10	<10	<10	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			7	800		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0				<20	< 10	< 10	<10	<10 G	<10 G	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Butanone (MEK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		<10	<10	<50	< 25	< 25	<25	<25	<25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				<20	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				<20	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				<20	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		<2.0	<2.0	<20	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			2	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		<1.0	<1.0	<10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		<1.0	<1.0	<10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			NS	NS		< 2.0	< 2.0	2.6	1.9 J	< 2.0	< 2.0	< 2.0		<1.0	<1.0	<20	< 10	< 10	<10	<10	<10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			50	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		<1.0	<1.0	<10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		<1.0	<1.0	<20	< 10	< 10	<10	<10	<10	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				<20	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				<20	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				<20	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane			20	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				<10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane			2	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0				<20	< 10	< 10	<10	<10	<10	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				<20	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene			8000	2000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				<10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0				<10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.59 J	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene			60	8000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		<1.0	<1.0	<10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0					<20	< 10	< 10	<10	<10	<10	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1-Dichloroethane			2000	20000		19.6	24.3	< 1.0	28.4	27.1	9.7	38.1		21.1	25.4	<10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane			5	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		<1.0	<1.0	<10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000		1.9	6.1	1.1	1.9	0.95 J	0.40 J	1.40		0.64 J	<1.0	<10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethylene			20	50000		112	154	67.3	93.6	95.2	49.8	77.3		83.9	67.6	12	20	12	13	8.9	<10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethylene			90	50000		1.1	6.4	< 1.0	3.1	2.3	0.64 J	1.1		1.5	1.2	<10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane			3	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		<1.0	<1.0	<10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3-Dichloropropane						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				<20	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				<20	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				<20	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50				<4	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50				<4	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl ether (Ethyl ether)						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				<20	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Di-Isopropyl ether						< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0				<20	< 10	< 10	<10	<10	<10	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,4-Dioxane			5000	50000		< 25	< 25	< 25 F- K-	< 50	< 25 K-	< 25	< 25		<130	<130	<2500	< 1200	< 1200	<1200	<1200	<500	< 25	< 25 R	< 25	< 25	NT	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Ethylbenzene			20000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		<1.0	<1.0	<10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	2.6 JB				<6	< 3.0	< 3.0	<3.0	<3.0	<3.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		<5.0	<5.0	<50	< 25	< 25	<25	<25	<25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				<20	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				<20	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000		< 1.0	< 1.0	0.90 J	< 1.0	< 1.0	< 1.0	0.61 J		<1.0	<1.0	<20	< 10	< 10	<10	<10	<10	< 1.0	< 1.0 J+	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-pentanone (MIBK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					<50	< 25	< 25	<25	<25	<25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride			2000	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		<2.0	<2.0	<20	< 10	< 10	<10	<10	<10	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			700	20000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		<5.0	<5.0	<20	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				<20	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene			100	6000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				<10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tert-amyl methyl ether			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		<2.0	<2.0	<20	< 10	< 10	<10	<10	<10	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0				<20	< 10	< 10	<10	<10	<10	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0		<1.0	<1.0	<10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane			9	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50					<10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			20	30000		14	14.8	11.9	9.7	10.1	10.7	6.5		15.1	10.7	2200	510	620	690	1700	790	7.8	0.69 J	0.67 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrahydrofuran			NS	NS		< 10	< 10	< 10	< 10	< 10 G	< 10	< 10		<10	<10	<20	< 10	< 10	<10	<10	<10	< 10	< 10	< 10	< 10	NT	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene			50000	40000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		<1.0	<1.0	<10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					<20	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene			200	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					<20	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000		4.4	5.1	11.4	4.3	5.1	2.8	8.6		4.1	3.7	<10	6.6	5.4	6.8	<5.0	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane			900	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		<1.0	<1.0	<10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000		24.3	26.4	13.9	14.1	16.3	15.6	12.4		21.3	15	31	19	22	28	25	24	< 1.0	3.4	3.2	1.5	1.5	1.6	2.2	1.7	1.7	1.8	1.7	2.3	1.6	0.78 J
Trichlorofluoromethane			NS	NS		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0					<20	< 10	< 10	<10	<10	<10	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					<20	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					<20	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					<20	< 10	< 10	<10	<10	<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride			2	50000		34.9	53.9	39.3	28.9	51.7	11.8	16.1		9.6	16.4	<10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m,p-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		<1.0	<1.0	<20	< 10	< 10	<10	<10	<10	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		<1.0	<1.0	<10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		<1.0	<1.0	<10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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B:\Private\04516\15.0 Report Original\15.162 Ph V SR 29 RMR 44 (Feb 2026)\Tables

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW105	MW105	MW105	MW105	MW106	MW106	MW106	MW106	MW106	MW106	MW106	MW106	MW106	MW107	MW107	MW107	MW107	MW107	MW107	MW107	MW107	MW108	MW108	MW108	MW108	MW108	MW108	MW108	MW108
					Sample Name:	MW105 19 to 29 4/12/10 GEI	MW105 19 to 29 4/20/11 GEI	MW105 19 to 29 4/17/12 GEI	MW105 19 to 29 4/23/13 GEI	MW106 9 to 19 1/18/07 GEI	MW106 9 to 19 4/13/07 GEI	MW106 9 to 19 7/19/07 GEI	MW106 9 to 19 10/10/07 GEI	MW106 9 to 19 1/10/08 GEI	MW106 9 to 19 4/17/08 GEI	MW106 9 to 19 4/3/24 GEI	MW106 9 to 19 3/19/25 GEI	MW106 9 to 19 11/12/25 GEI	MW107 2 to 12 1/18/07 GEI	MW107 2 to 12 4/13/07 GEI	MW107 2 to 12 7/18/07 GEI	MW107 2 to 12 10/10/07 GEI	MW107 2 to 12 1/10/08 GEI	MW107 2 to 12 4/17/08 GEI	MW107 2 to 12 4/2/24 GEI	MW107 2 to 12 4/22/25 GEI	MW107 2 to 12 11/12/25 GEI	MW108 2 to 12 1/18/07 GEI	MW108 2 to 12 4/16/07 GEI	MW108 2 to 12 7/18/07 GEI	MW108 2 to 12 10/10/07 GEI	MW108 2 to 12 1/10/08 GEI	MW108 2 to 12 4/17/08 GEI	MW108 2 to 12 9/15/23 GEI	MW108 2 to 12 4/2/24 GEI
					Well Screen Interval (ft bgs):																													
					Sample Date:																													
					Collected By:																													
Volatile Organic Compounds (VOCs)	8260	µg/l																															
Acetone			50000	50000		< 5.0 J+	< 5.0	< 5.0	< 10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	69.9	< 5.0	9.2	<5.0	<5.0	<10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	<5.0
Acrylonitrile			NS	NS		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT	
Benzene			1000	10000		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	<0.5	<0.50	<0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	<0.5	<0.50	<0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	<0.5
Bromobenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0
Bromochloromethane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0
Bromodichloromethane			6	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Bromoform			700	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	0.75 J	< 1.0	NT	< 1.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 2.0	<2.0
Bromomethane			7	800		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	<2.0
2-Butanone (MEK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	7.7	< 5.0	1.1 J	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	<5.0
n-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0
sec-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0
tert-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0
Carbon disulfide			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0
Carbon tetrachloride			2	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 G	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Chlorobenzene			200	1000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Chloroethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 G	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0
Chloroform			50	20000		< 1.0	< 1.0	< 1.0	< 1.0	1.1	1.2	NT	0.56 J	0.39 J	1.7	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Chloromethane			NS	NS		< 2.0	< 2.0	< 2.0	2.5	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	<2.0
2-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0
4-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0
1,2-Dibromo-3-chloropropane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0
Dibromochloromethane			20	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
1,2-Dibromoethane			2	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	<2.0
Dibromomethane (Methylene bromide)			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0
1,2-Dichlorobenzene			8000	2000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
1,3-Dichlorobenzene			6000	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
1,4-Dichlorobenzene			60	8000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Dichlorodifluoromethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	<2.0
1,1-Dichloroethane			2000	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	4.6	4.3	0.52 J	< 1.0	2.1	3.4	1.1	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
1,2-Dichloroethane			5	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
1,1-Dichloroethylene			80	30000		< 1.0	< 1.0	< 1.0	< 1.0	4.4	6.3	3.4	3.9	4.1	1.5	1.1	1.3	1.6	3.2	3.7	< 1.0	< 1.0	1.3 G	2.3	<1.0	<1.0	2.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
cis-1,2-Dichloroethylene			20	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
trans-1,2-Dichloroethylene			90	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
1,2-Dichloropropane			3	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 1.0	<1.0
1,3-Dichloropropane						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0
2,2-Dichloropropane						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0
1,1-Dichloropropene						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0
cis-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	<0.4	<0.40	<0.40	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	<0.4	<0.40	<0.40	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.40	<0.4
trans-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	<0.4	<0.40	<0.40	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	<0.4	<0.40	<0.40	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.40	<0.4
Diethyl ether (Ethyl ether)						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0
Di-Isopropyl ether						< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<2	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	<2.0
1,4-Dioxane			5000	50000		< 25	< 25	< 25 K-	< 50	< 25	< 25	NT	< 25	< 25	< 25	<250	<250	<250	< 25	< 25	NT	< 25	< 25	< 25	<250	<250	<50	< 25	< 25	NT	< 25	< 25	< 25	< 250	<250
Ethylbenzene			20000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Hexachlorobutadiene			50	3000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<0.6	<0.60	<0.60	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<0.6	<0.60	<0.60	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 0.60	<0.6
2-Hexanone			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	<5.0
Isopropyl benzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0
4-Isopropyltoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0
Methyl tert-butyl ether			50000	50000		< 1.0	< 1.0	< 1.0	< 1.0 K-	12.2	12.1	NT	252	78.0	4.9	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	< 1.0	0.21 J	< 1.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 2.0	<2.0
4-Methyl-2-pentanone (MIBK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	<5.0
Methylene chloride			2000	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	<2.0
Naphthalene			700	20000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0
n-Propylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0
Styrene			100	6000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 1.0	<1.0
Tert-amyl methyl ether			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	2.2	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	<2.0
Tert-butyl ethyl ether			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	<2.0
1,1,1,2-Tetrachloroethane			10	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 1.0	<1.0
1,1,2,2-Tetrachloroethane			9	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Tetrachloroethylene (PCE)			20	30000		< 1.0	< 1.0	< 1.0	0.53 J	1.0 F-	1.2	2.3	1.7	2.3	0.44 J	<1.0	<1.0	1	< 1.0 F-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0 F-	< 1.0	< 1.0	0.60 J	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Tetrahydrofuran			NS	NS		< 10	< 10	< 10	< 10	< 10	< 10	NT	< 10	< 10	< 10	<2.0	<2.0	<2.0	< 10	< 10	NT	< 10	< 10	< 10	<2.0	<2.0	<2.0	< 10	< 10	NT	< 10	< 10	< 10	< 2.0	<2.0
Toluene			50000	40000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	110	0.40 J	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
1,2,3-Trichlorobenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0
1,2,4-Trichlorobenzene			200	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0
1,1,1-Trichloroethane (TCA)			4000	20000		< 1.0	< 1.0	< 1.0	< 1.0	15.3	1.5 J+	6.4	11.3	14.9	2.3	2.4	3.5	4.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
1,1,2-Trichloroethane			900	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Trichloroethylene (TCE)			5	5000		1.1	1.8	1.7	1.6	3.7	4.8	3.6	4.4	4.9	1.2	1.7	2.3	3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Trichlorofluoromethane			NS	NS		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 2.0	<2.0
1,2,3-Trichloropropane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0
1,2,4-Trimethylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0
1,3,5-Trimethylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0
Vinyl chloride			2	50

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW108	MW109	MW109	MW109	MW109	MW109	MW109	MW109	MW110	MW110	MW110	MW111	MW111	MW111	MW111	MW111	MW111	MW111	MW111R	MW111R	MW111R	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A
					Sample Name:	MW108 2 to 13 11/12/25 GEI	MW109 3 to 13 1/18/07 GEI	MW109 3 to 13 4/16/07 GEI	MW109 3 to 13 4/17/08 GEI	MW109 3 to 13 4/2/24 GEI	MW109 3 to 13 3/19/25 GEI	MW109 3 to 13 11/13/25 GEI	MW110 3 to 13 1/18/07 GEI	MW110 3 to 13 4/17/07 GEI	MW110 3 to 13 5/23/07 GEI	MW111 4 to 14 1/18/07 GEI	MW111 4 to 14 4/16/07 GEI	MW111 4 to 14 7/18/07 GEI	MW111 4 to 14 10/10/07 GEI	MW111 4 to 14 1/10/08 GEI	MW111 4 to 14 4/17/08 GEI	MW111R 5 to 15 3/7/25 GEI	MW111R 5 to 15 4/24/25 GEI	MW111R 5 to 15 11/12/25 GEI	MW112A 4 to 19 3/23/07 GEI	MW112A 4 to 19 4/16/07 GEI	MW112A 4 to 19 7/18/07 GEI	MW112A 4 to 19 10/10/07 GEI	MW112A 4 to 19 1/10/08 GEI	MW112A 4 to 19 4/17/08 GEI	MW112A 4 to 19 7/14/08 GEI	MW112A MW900 (FD) 4 to 19 7/14/08 GEI	MW112A 4 to 19 10/22/08 GEI	MW112A MW901 (FD) 4 to 19 10/22/08 GEI
					Well Screen Interval (ft bgs):																															
					Sample Date:																															
					Collected By:																															
Volatile Organic Compounds (VOCs)	8260	µg/l																																	
Acetone			50000	50000		<5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	8	6.9	6.9	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Acrylonitrile			NS	NS		NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000		<0.50	<0.50	< 0.50	< 0.50	< 0.50	<0.5	<0.50	<0.50	< 0.50	< 0.50	NT	< 5.0	< 13	NT	< 25	< 0.50	< 1.0	<0.50	<0.50	<0.50	< 0.50	< 0.50	NT	< 0.50	0.34 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene			NS	NS		<2.0	<2.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromochloromethane			NS	NS		<2.0	<2.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane			6	50000		<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			700	50000		<2.0	<2.0	< 1.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			7	800		<2.0	<2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0 K-	< 2.0	< 2.0	NT	< 20	< 50	NT	< 100	< 2.0	< 4.0	<2.0	<2.0 K-	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0 J+
2-Butanone (MEK)			50000	50000		<5.0	<5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<5.0	<5.0 K-	<5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Butylbenzene			NS	NS		<2.0	<2.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene			NS	NS		<2.0	<2.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene			NS	NS		<2.0	<2.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			NS	NS		<2.0	<2.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			2	5000		<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 10	< 25	< 1.0	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000		<1.0	<1.0	< 1.0	< 1.0	0.28 J	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			NS	NS		<2.0	<2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 20	< 50	< 2.0	< 100	< 2.0	< 4.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			50	20000		<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	1.2	< 2.0	<1.0	<1.0	<1.0	0.35 J	< 1.0	NT	< 1.0	0.32 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			NS	NS		<2.0	<2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 20	< 50	NT	< 100	< 2.0	< 4.0	<2.0	<2.0 K-	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0 J+
2-Chlorotoluene			NS	NS		<2.0	<2.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene			NS	NS		<2.0	<2.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS		<2.0	<2.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0 G	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane			20	50000		<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane			2	50000		<2.0	<2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 20	< 50	NT	< 100	< 2.0	< 4.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS		<2.0	<2.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene			8000	2000		<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000		<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene			60	8000		<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS		<2.0	<2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 20	< 50	NT	< 100	< 2.0	< 4.0	<2.0	<2.0	<2.0	< 2.0 J+	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1-Dichloroethane			2000	20000		<1.0	<1.0	1.2	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	30.9	15.7 J	16.8	19.1 J	5.6	4.3 C+	<1.0	<1.0	<1.0	27.6	24.0	6.4	35.6	114	40.9 C+	31.5	31.2	43.7	44.6
1,2-Dichloroethane			5	20000		<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 10	< 25	0.43 J	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000		<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	17.6	< 25	10.5	< 50	4.1	3.7 C+	<1.0	<1.0	<1.0	19.7	10.8	6.7	19.7	82.4	36.6 C+	24.5	24.5	39.1	39.3
cis-1,2-Dichloroethylene			20	50000		<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	22.6	17.2 J	56.3	63.9	10.6	4.4 C+	7.0	2.8	2.6	< 1.0	0.54 J	0.98 J	4.2	18.7	55.3 C+	81.5	80.9	214	212
trans-1,2-Dichloroethylene			90	50000		<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 10	< 25	1.5	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane			3	50000		<1.0	<1.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	< 2.0	< 2.0	NT	< 20	< 50	NT	< 100	< 2.0	< 4.0	<1.0	<1.0	<1.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3-Dichloropropane						<2.0	<2.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane						<2.0	<2.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0 J+	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene						<2.0	<2.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene			10	200		<0.40	<0.40	< 0.50	< 0.50	< 0.50	<0.4	<0.40	<0.40	< 0.50	< 0.50	NT	< 50	< 13	NT	< 25	< 0.50	< 1.0	<0.40	<0.40	<0.40	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene			10	200		<0.40	<0.40	< 0.50	< 0.50	< 0.50	<0.4	<0.40	<0.40	< 0.50	< 0.50	NT	< 50	< 13	NT	< 25	< 0.50	< 1.0	<0.40	<0.40	<0.40	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl ether (Ethyl ether)						<2.0	<2.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Di-Isopropyl ether						<2.0	<2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 20	< 50	NT	< 100	< 2.0	< 4.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,4-Dioxane			5000	50000		<250	<50	< 25	< 25	< 25	<250	<250	<250 K-	< 25	< 25	NT	< 250	< 630	NT	< 1300	< 25	< 50	<250	<250	<250	< 25	< 25	NT	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Ethylbenzene			20000	5000		<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000		<0.60	<0.60	< 5.0	< 5.0	< 5.0	<0.6	<0.60	<0.60	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<0.60	<0.60	<0.60	< 5.0 J+	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone			NS	NS		<5.0	<5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<5.0	<5.0 K-	<5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			NS	NS		<2.0	<2.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene			NS	NS		<2.0	<2.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000		<2.0	<2.0	3.5	< 1.0	< 1.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	0.45 J	< 2.0	<2.0	<2.0	<2.0	<2.0	10.8	13.8	NT	20.3	87.0	20.5 C+	14.9	13.5	32.4	32.2
4-Methyl-2-pentanone (MIBK)			50000	50000		<5.0	<5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride			2000	50000		<2.0	<2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 20	31.4 J	NT	< 100	< 2.0	< 4.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			700	20000		<2.0	<2.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene			NS	NS		<2.0	<2.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene			100	6000		<1.0	<1.0	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<1.0	<1.0	<1.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tert-amyl methyl ether			NS	NS		<2.0	<2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 20	< 50	NT	< 100	< 2.0	< 4.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS		<2.0	<2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 20	< 50	NT	< 100	< 2.0	< 4.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000		<1.0	<1.0	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<1.0	<1.0	<1.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane			9	50000		<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 10	< 25	< 1.0	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			20	30000		<1.0	<1.0	178 F-	28.5	17.4	12	4.8	17 K+	0.89 J F-	0.93 J	NT	13700 F-	7370	6340	8350	3100	1160 C+	74	39	45	261	198	144	159	359	202 C+	165	164	226	228
Tetrahydrofuran			NS	NS		<2.0	<2.0	< 10	< 10	< 10	<2.0	<2.0	<2.0	< 10	< 10	NT	< 100	< 250	NT	< 500	< 10	< 20	<2.0	4.9 K-	<2.0	< 10	< 10	NT	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene			50000	40000		<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	0.54 J	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS		<2.0	<2.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene			200	50000		<2.0	<2.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000		<1.0	<1.0	0.77 J	0.97 J	0.31 J	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	142	56.5	89.1	84.1	41.3	17.6 C+	<1.0	<1.0	<1.0	1.3	0.96 J	0.68 J	1.4	5.8	1.9 C+	1.3	1.2	5.6	5.7
1,1,2-Trichloroethane			900	50000		<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 10	< 25	< 1.0	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000		<1.0	<1.0	4.5	< 1.0	0.52 J	<1.0	<1.0	1.1	< 1.0	< 1.0	NT	150	84.4	120	125	42.1	19.9 C+	5.3	2.4	3.6	34.0	36.1	26.7	61.3	142	72.8 C+	46.1	44.3	54.9	55.9
Trichlorofluoromethane			NS	NS		<2.0	<2.0	< 1.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane			NS	NS		<2.0	<2.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene			NS	NS		<2.0	<2.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene			NS	NS		<2.0	<2.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride			2	50000		<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 10	< 25	< 1.0	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	0.84 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A
					Sample Name:	MW112A	MW900 (FD)	MW112A	MW901 (FD)	MW112A	MW901 (FD)	MW112A	MW900 (FD)	MW112A	MW900 (FD)	MW112A	MW112A	MW900 (FD)	MW112A	MW112A	MW900 (FD)	MW112A	MW112A	MW900 (FD)	MW112A	MW112A	MW112A	MW112A	MW900 (FD)	MW112A	MW112A	MW112A	MW901 (FD)
					Well Screen Interval (ft bgs):	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19
					Sample Date:	1/12/09	1/12/09	4/13/09	4/13/09	7/14/09	7/14/09	10/14/09	10/14/09	4/12/10	4/12/10	10/27/10	4/20/11	4/20/11	11/16/11	4/16/12	4/16/12	11/12/12	4/24/13	4/24/13	11/18/13	6/11/14	11/18/14	4/17/15	4/17/15	4/28/16	11/21/16	4/18/17	4/18/2017
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																														
Acetone			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 F+	< 5.0 F+	< 5.0	< 5.0	< 5.0 J+	< 5.0 J+	< 5.0	< 10	< 10	< 5.0	< 5.0 K-	< 5.0 K-	< 10 K-	< 20	< 20	< 10 K-	< 10 K-	< 10	< 10	< 10	< 10	<10	<10
Acrylonitrile			NS	NS		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT						
Benzene			1000	10000		0.26 J	0.27 J	0.36 J	0.28 J	< 0.50 F-	< 0.50 F-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.43 J	0.23 J	0.23 J
Bromobenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0						
Bromochloromethane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0						
Bromodichloromethane			6	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Bromoform			700	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0						
Bromomethane			7	800		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0 G						
2-Butanone (MEK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10 K-	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	<10	<10
n-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0						
sec-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0						
tert-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0						
Carbon disulfide			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0
Carbon tetrachloride			2	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Chlorobenzene			200	1000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Chloroethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0 G	< 2.0	< 2.0	< 2.0	<1.0	<1.0
Chloroform			50	20000		0.23 J	0.24 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Chloromethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0 G	< 2.0	< 2.0	< 2.0	<2.0	<1.0
2-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0						
4-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0						
1,2-Dibromo-3-chloropropane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0						
Dibromochloromethane			20	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0						
1,2-Dibromoethane			2	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 4.0	< 2.0	< 1.0	< 1.0						
Dibromomethane (Methylene bromide)			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0						
1,2-Dichlorobenzene			8000	2000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0						
1,3-Dichlorobenzene			6000	50000		0.36 J	0.35 J	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0						
1,4-Dichlorobenzene			60	8000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Dichlorodifluoromethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 4.0	< 2.0	< 2.0 K-	< 2.0						
1,1-Dichloroethane			2000	20000		70.9	70.7	109	89.6	99.3	107	137	142	83.8	88.3	85.5	38.1	38.8	39.5	71.5	69.0	48.1	24.2	37.0	73.5	18.3	64.1 G K-	23.2	25.2	14.1	77	34.1	30.1
1,2-Dichloroethane			5	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,1-Dichloroethylene			80	30000		61.7	61.7	89.2	73.0	91.4	97.7	123	130	74.9	78.6	89.1	57.9	53.0	47.6	86.4	76.2	57.3	30.2	30.0	86.5	38.5	109 K+	39	42.9	21.5	132	47.7	43.0
cis-1,2-Dichloroethylene			20	50000		225	224	296	247	311	380	390	373	165	196	214	143	140	169	178	185	150	145	112	209	150	321	71.1	84.1	108	230	78.2	71.8
trans-1,2-Dichloroethylene			90	50000		< 1.0	< 1.0	7.9 G	2.5 G	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.9	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	2.9	< 1.0	< 1.0	< 1.0	< 1.0 K+	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,2-Dichloropropane			3	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0
1,3-Dichloropropane						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0						
2,2-Dichloropropane						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0						
1,1-Dichloropropene						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0						
cis-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50						
trans-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50						
Diethyl ether (Ethyl ether)						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0						
Di-Isopropyl ether						< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0						
1,4-Dioxane			5000	50000		< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 50	< 50	< 25	< 25	< 25	< 50	< 50	< 50	< 25	< 25	< 25	< 25	< 25	< 25	< 50	<130	<130
Ethylbenzene			20000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Hexachlorobutadiene			50	3000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
2-Hexanone			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0 K-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	<5.0	<5.0
Isopropyl benzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0						
4-Isopropyltoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0
Methyl tert-butyl ether			50000	50000		33.3	32.9	29.9	23.3	41.4	46.0	77.5	81.4	15.9	20.3	50.3	9.2	9.1	22.3	27.1	26.2	28.8	19.0	14.1	64.6	4.6	47.3 K+	11.9	13.9	3.9	53.9	11.6	11.4
4-Methyl-2-pentanone (MIBK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10 F- K-	< 10	< 10	< 5.0	< 5.0	< 5.0						
Methylene chloride			2000	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0
Naphthalene			700	20000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0
n-Propylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0						
Styrene			100	6000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0						
Tert-amyl methyl ether			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0
Tert-butyl ethyl ether			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0						
1,1,1,2-Tetrachloroethane			10	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane			9	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 0.50	< 0.50						
Tetrachloroethylene (PCE)			20	30000		287	290	290 G	384	359	360	393	405	481	477	561	415	409	363	569 R	604	546	339	581	371	266	398	303	300	258	508	435	404
Tetrahydrofuran			NS	NS		< 10	< 10	< 10	< 10	< 10 F+	< 10 F+	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 20 F- K-	< 20	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10
Toluene			50000	40000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,2,3-Trichlorobenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0						
1,2,4-Trichlorobenzene			200	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0						
1,1,1-Trichloroethane (TCA)			4000	20000		3.3	3.2	3.9	3.1	3.8	4.0	4.2 J+	4.4 J+	3.4	3.4	4.3	7.5	< 2.0	3.3	5.3	4.8	4.1	4.3	6.5	8.0	1.5	3.6	1.3	1.4	1.7	6.5	4.1	3.6
1,1,2-Trichloroethane			900	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Trichloroethylene (TCE)			5	5000		88.2	87.9	140	114	137	139	194	198.0	173	179	181	110	108	95.0	171	157	138	87.0	140	146	82.0	117	71	73	61.3	220.0	118.0	107
Trichlorofluoromethane			NS	NS		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0 G K-						
1,2,3-Trichloropropane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0						
1,2,4-Trimethylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0						
1,3,5-Trimethylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 F-	< 5.0 F-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0						
Vinyl chloride			2	50000		0.42 J	0.43 J	< 1.0	< 1.0	1.2	1.3	1.0	1.5	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	4.4	0.90 J	< 1.0	0.77 J G K-	< 1.0	< 1.0	< 1.0	1.3	<1.0	<1.0
m,p-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
o-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Total Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	MW112A 4 to 19 11/10/2017 GEI	MW112A 4 to 19 4/4/2018 GEI	MW112A 4 to 19 11/15/2018 GEI	MW112A 4 to 19 4/15/2019 GEI	MW112A 4 to 19 11/22/2019 GEI	MW112A 4 to 19 4/16/2020 GEI	MW112A 4 to 19 11/18/2020 GEI	MW112A 4 to 19 4/13/2021 GEI	MW112A 4 to 19 11/30/2021 GEI	MW112A 4 to 19 4/14/2022 GEI	MW112A 4 to 19 11/29/2022 GEI	MW112A 4 to 19 5/11/2023 GEI	MW112A 4 to 19 11/7/2023 GEI	MW112A 4 to 19 4/2/2024 GEI	MW112A 4 to 19 11/14/2024 GEI	MW112A 4 to 19 4/25/2025 GEI	MW112A 4 to 19 11/13/2025 GEI	MW-115/115R 10 to 25 1/20/25 GEI	MW-115/115R 10 to 25 4/22/25 GEI	MW-115/115R 10 to 25 11/13/25 GEI	MW116 5 to 15 3/23/07 GEI	MW116 5 to 15 4/16/07 GEI	MW116 5 to 15 7/18/07 GEI	MW116 5 to 15 7/18/07 GEI	MW116 5 to 15 10/12/07 GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																										
Acetone			50000	50000	< 20	<25	<25	<25	<10	<25	<25	<25	<25	<25	<25	<10	< 25	<12	< 20	<10	<10	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	NT	< 10 J+
Acrylonitrile			NS	NS											NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000	< 1.0	<1.3	<1.3	<1.3	<0.50	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1	< 2.5	<1.2	< 2.0	<1.0	<1.0	<0.50	<0.50	<0.50	0.24 J	< 0.50	NT	NT	< 1.0
Bromobenzene			NS	NS											<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	NT	< 10
Bromochloromethane			NS	NS											<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	NT	< 10
Bromodichloromethane			6	50000	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	NT	1.1 J
Bromoform			700	50000											<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	NT	< 2.0
Bromomethane			7	800											<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0 K-	< 2.0	< 2.0	NT	NT	< 4.0
2-Butanone (MEK)			50000	50000	< 20	<25	<25	<25	<10	<25	<25	<25	<25	<25	<25	<5	< 25	<12	< 20	<10	<10	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	NT	< 10 J+
n-Butylbenzene			NS	NS											<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	NT	< 10
sec-Butylbenzene			NS	NS											<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	NT	< 10
tert-Butylbenzene			NS	NS											<10	<10	<10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	NT	< 10
Carbon disulfide			NS	NS	< 4.0	<5.0	<5.0	<5.0	<2.0	<10	<10	<10	<10	<10	<10	<2	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	NT	< 10
Carbon tetrachloride			2	5000	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<1	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
Chlorobenzene			200	1000	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	NT	< 2.0
Chloroethane			NS	NS	< 2.0	<2.5	<2.5	<2.5	<1.0	<10	<10	<10	<10	<10	<10	<4	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	2.4	2.3	2.4 J
Chloroform			50	20000	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	NT	< 2.0
Chloromethane			NS	NS	< 2.0	<2.5	<2.5	<2.5	<1.0	<10	<10	<10	<10	<10	<10	<4	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	NT	< 4.0
2-Chlorotoluene			NS	NS											<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	NT	< 10
4-Chlorotoluene			NS	NS											<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	NT	< 10
1,2-Dibromo-3-chloropropane			NS	NS											<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0 G	<2.0	<2.0	<2.0 G	< 5.0	< 5.0	NT	NT	< 10
Dibromochloromethane			20	50000											<5	<5	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	NT	< 2.0
1,2-Dibromoethane			2	50000											<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	NT	< 4.0
Dibromomethane (Methylene bromide)			NS	NS											<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	NT	< 10
1,2-Dichlorobenzene			8000	2000											<5	<5	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	NT	< 2.0
1,3-Dichlorobenzene			6000	50000											<5	<5	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	NT	< 2.0
1,4-Dichlorobenzene			60	8000	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	NT	< 2.0
Dichlorodifluoromethane			NS	NS											<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 2.0 J+	< 2.0	NT	NT	< 4.0 J+
1,1-Dichloroethane			2000	20000	88.1	25.3	25.3	38.5	36.9	51	48	40	35	24	35	50	39	28	30	19	27	<1.0	<1.0	<1.0	135	4.4	97.3	96.9	80.1
1,2-Dichloroethane			5	20000	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
1,1-Dichloroethylene			80	30000	92.5	33.0	33.0	57.3	63.1	79	98	58	63	45	67	27	53	46	52	33	47	<1.0	<1.0	<1.0	107	2.7	33.8	34.0	24.8
cis-1,2-Dichloroethylene			20	50000	155	98.5	98.5	60.6	131.0	72	130	62	120	85	68	100	64	100	93	99	130	<1.0	<1.0	<1.0	103	21.7	415	431	346
trans-1,2-Dichloroethylene			90	50000	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0	1.8	< 1.0	4.3	4.4	2.5
1,2-Dichloropropane			3	50000	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0	< 2.0	< 2.0	NT	NT	< 4.0
1,3-Dichloropropane															<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	NT	< 10
2,2-Dichloropropane															<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	NT	< 10
1,1-Dichloropropene															<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	NT	< 10
cis-1,3-Dichloropropene			10	200											<2	<2	< 2.0	<1.0	< 1.6	<0.80	<0.80	<0.40	<0.40	<0.40	< 0.50	< 0.50	NT	NT	< 1.0
trans-1,3-Dichloropropene			10	200											<2	<2	< 2.0	<1.0	< 1.6	<0.80	<0.80	<0.40	<0.40	<0.40	< 0.50	< 0.50	NT	NT	< 1.0
Diethyl ether (Ethyl ether)															<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	NT	< 10
Di-Isopropyl ether															<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	NT	< 4.0
1,4-Dioxane			5000	50000	< 250	<310	<310	<310	<130	<1200	<1200	<1200	<1200	<1200	<1200	<500	< 1200	<620	< 1000	<500 K-	<50	<250	<250	<250 K-	< 25	< 25	NT	NT	< 50
Ethylbenzene			20000	5000	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	NT	< 2.0
Hexachlorobutadiene			50	3000											<3	<3	< 3.0	<1.5	< 2.4	<1.2	<1.2	<0.60	<0.60	<0.60	< 5.0 J+	< 5.0	NT	NT	< 10
2-Hexanone			NS	NS	< 10	<13	<13	<13	<5.0	<25	<25	<25	<25	<25	<25	<10	< 25	<12	< 20	<10	<10	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	NT	< 10 J+
Isopropyl benzene			NS	NS											<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	NT	< 10 J+
4-Isopropyltoluene			NS	NS	< 4.0	<5.0	<5.0	<5.0	<2.0	<10	<10	<10	<10	<10	<10	<4	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	NT	< 10
Methyl tert-butyl ether			50000	50000	56	19.1	19.1	25.9	21.7	27	30	19	12	5	13	10	15	6	10	<4.0	8.2	<2.0	<2.0	<2.0	12.3	0.40 J	NT	NT	12.5
4-Methyl-2-pentanone (MIBK)			50000	50000											<25	<25	< 25	<12	< 20	<10	<10	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	NT	< 10
Methylene chloride			2000	50000	< 4.0	<5.0	<5.0	<5.0	<2.0	<10	<10	<10	<10	<10	<10	<4	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	NT	< 4.0
Naphthalene			700	20000	< 10	<13	<13	<13	<5.0	<10	<10	<10	<10	<10	<10	<4	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	NT	< 10
n-Propylbenzene			NS	NS											<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	NT	< 10
Styrene			100	6000											<5	<5	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	NT	NT	< 10
Tert-amyl methyl ether			NS	NS	< 4.0	<5.0	<5.0	<5.0	<2.0	<10	<10	<10	<10	<10	<10	<4	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	NT	< 4.0
Tert-butyl ethyl ether			NS	NS											<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	NT	< 4.0
1,1,1,2-Tetrachloroethane			10	50000	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	NT	NT	< 10
1,1,2,2-Tetrachloroethane			9	50000											<5	<5	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
Tetrachloroethylene (PCE)			20	30000	908	317	317	555	463	750	760	630	460	370	560	300	460	370	420	220	400	<1.0	<1.0	<1.0	1180	32.2	167	168	116
Tetrahydrofuran			NS	NS	< 20	<25	<25	<25	<10	<10	<10	<10	<10	<10	<10	<4	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	30.6	13.8	NT	NT	< 20
Toluene			50000	40000	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	NT	< 2.0
1,2,3-Trichlorobenzene			NS	NS											<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	NT	NT	< 10
1,2,4-Trichlorobenzene			200	50000											<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	NT	< 10
1,1,1-Trichloroethane (TCA)			4000	20000	11.4	3.6	3.6	5.4	5.0	7.5	7.8	7.0	5.1	3.0	<5	4.1	5.4	3.5	< 4.0	2.3	4.2	<1.0	<1.0	<1.0	21.6	0.67 J	10.6	10.7	9.4
1,1,2-Trichloroethane			900	50000	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
Trichloroethylene (TCE)			5	5000	247	92.3	92.3	136	136	180	190	140	130	95	140	170	110	84	84	56	98	<1.0	<1.0	<1.0	358	19.4	72.7	73.2	136
Trichlorofluoromethane			NS	NS											<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	NT	< 2.0
1,2,3-Trichloropropane			NS	NS											<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	NT	< 10
1,2,4-Trimethylbenzene			NS	NS											<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	NT	< 10
1,3,5-Trimethylbenzene			NS	NS											<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	NT	< 10
Vinyl chloride			2	50000	< 2.0	<2.5	<2.5	<2.5	1.4	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	11	12	28	10	19	<1.0	<1.0	<1.0	14.1	3.2	185	182	84.9
m,p-Xylene			3000	5000	< 2.0	<2.5	<2.5	<2.5	<1.0	<10	<10	<10	<10	<10	<10	<4	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	NT	< 2.0
o-Xylene			3000	5000	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	NT	< 2.0
Total Xylene			3000	5000	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	NT	< 2.0

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116
					Sample Name:	MW901 (FD)	MW116	MW901 (FD)	MW116	MW901 (FD)	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW901 (FD)	MW116	MW901 (FD)	MW116	MW901 (FD)	MW116	MW901 (FD)	MW116	MW901 (FD)	MW116	MW900 (FD)	MW116	MW900 (FD)	MW116	MW900 (FD)	MW116	MW900 (FD)	MW116
					Well Screen Interval (ft bgs):	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15
					Sample Date:	10/12/07	1/11/08	1/11/08	4/15/08	4/15/08	7/16/08	10/21/08	1/14/09	4/15/09	7/14/09	10/14/09	4/13/10	4/13/10	4/21/11	4/21/11	4/17/12	4/17/12	4/24/13	4/24/13	5/1/14	5/1/14	4/2/15	4/2/15	4/29/16	4/29/16	4/17/17	4/17/17	4/18/18			
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI			
Volatile Organic Compounds (VOCs)	8260	µg/l																																
Acetone			50000	50000		< 10 J+	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0	< 10 F+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 20	< 10	< 20	< 20	< 20	< 20	< 20	< 10	<10	<10	<10	
Acrylonitrile			NS	NS		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT				
Benzene			1000	10000		< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 1.0	< 0.50	< 1.0	< 1.0	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	<0.50	<0.50	<0.50	
Bromobenzene			NS	NS		< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 5.0				
Bromochloromethane			NS	NS		< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0	< 10	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 5.0				
Bromodichloromethane			6	50000		0.99 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	
Bromoform			700	50000		< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0 J+	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0				
Bromomethane			7	800		< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0 K-	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0 K-				
2-Butanone (MEK)			50000	50000		< 10 J+	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0	< 10	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 5.0	<10	<10	<10	
n-Butylbenzene			NS	NS		< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 5.0				
sec-Butylbenzene			NS	NS		< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 5.0				
tert-Butylbenzene			NS	NS		< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 5.0				
Carbon disulfide			NS	NS		< 10	< 5.0	< 5.0	< 5.0	< 5.0	2.9 J	< 5.0	< 10	< 5.0	< 10	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 5.0	<2.0	<2.0	<2.0	
Carbon tetrachloride			2	5000		< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	
Chlorobenzene			200	1000		< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	
Chloroethane			NS	NS		2.4 J	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0	<1.0	<1.0	<1.0	
Chloroform			50	20000		< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	
Chloromethane			NS	NS		< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0	<1.0	<1.0	<1.0	
2-Chlorotoluene			NS	NS		< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 5.0				
4-Chlorotoluene			NS	NS		< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 5.0				
1,2-Dibromo-3-chloropropane			NS	NS		< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 5.0				
Dibromochloromethane			20	50000		< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0				
1,2-Dibromoethane			2	50000		< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0				
Dibromomethane (Methylene bromide)			NS	NS		< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 5.0				
1,2-Dichlorobenzene			8000	2000		< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0 J+	< 2.0 J+	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0				
1,3-Dichlorobenzene			6000	50000		< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0 J+	< 2.0 J+	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0				
1,4-Dichlorobenzene			60	8000		< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0 J+	< 2.0 J+	< 2.0	< 5.0	< 1.0	1.6	1.0	0.82 J	0.77 J	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	
Dichlorodifluoromethane			NS	NS		< 4.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0 J+	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 10 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0 K-	< 4.0 K-	< 4.0 K-	< 4.0 K-	< 4.0 K-					
1,1-Dichloroethane			2000	20000		79.3	18.9	15.6	66.8	64.5	114	109	72.5	101	69.7	92.2	63.9	68.9	27.8	23.4	52.8	51.8	31.5	25.8	38.5	41.9	52.0	49.9	38.3	45.0	49.4	49.8	44.1	
1,2-Dichloroethane			5	20000		< 2.0	< 1.0	< 1.0	0.23 J	0.20 J	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	
1,1-Dichloroethylene			80	30000		22.4	14.7	11.8	46.3	45.7	78.4	79.8	56.5	70.6	35.2	68.8	49.1	51.9	22.4	14.1	43.3	42.3	26.7	39.4	46.1	50.3	52.4	50.8	27.7	36.4	35.1	34.4	19.7	
cis-1,2-Dichloroethylene			20	50000		341	49.5	42.9	105	102	286	319	146	84.1	92.7	133	80.7	92.1	84.6	68.3	115	112	94.8	144	107	116	114	111	50.6	59	67.5	67.2	42.6	
trans-1,2-Dichloroethylene			90	50000		2.4	0.88 J	1.3	< 1.0	< 1.0	< 2.0	1.3	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	1.6	1.6	1.8	< 1.0	< 1.0	< 2.0	1.1	< 2.0	< 2.0	1.1 J	<2.0	< 2.0	< 1.0	0.42 J	0.45 J	1.1	
1,2-Dichloropropane			3	50000		< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0	<1.0	<1.0	<1.0	
1,3-Dichloropropane						< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0	< 10	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 5.0				
2,2-Dichloropropane						< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0	< 10	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 5.0				
1,1-Dichloropropene						< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0	< 10	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 5.0				
cis-1,3-Dichloropropene			10	200		< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 1.0	< 0.50	< 1.0	< 1.0	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50				
trans-1,3-Dichloropropene			10	200		< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 1.0	< 0.50	< 1.0	< 1.0	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50				
Diethyl ether (Ethyl ether)						< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0	< 10	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 5.0				
Di-Isopropyl ether						< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0				
1,4-Dioxane			5000	50000		< 50	< 25	< 25	< 25	< 25	< 50	< 25	< 50	< 25	< 50 F-	< 50	< 130	< 25	< 25	< 25	< 25 K-	< 25 K-	< 100	< 50	< 50	< 50	< 50	< 50	< 50	< 50	<130	<130	<130	
Ethylbenzene			20000	5000		< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	
Hexachlorobutadiene			50	3000		< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 5.0				
2-Hexanone			NS	NS		< 10 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0	< 10	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 5.0	<5.0	<5.0	<5.0	
Isopropyl benzene			NS	NS		< 10 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 5.0				
4-Isopropyltoluene			NS	NS		< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 5.0	<2.0	<2.0	<2.0	
Methyl tert-butyl ether			50000	50000		12.7	2.1 J+	1.3 J+	7.1	6.9	18.2	18.0	9.0	11.7	7.2	8.4	5.4	5.9	4.4	4.4	3.4	3.3	14.1	10.6 K-	4.4	4.8	5.0	4.9	< 2.0	0.79 J	1.6	1.6	1.1	
4-Methyl-2-pentanone (MIBK)			50000	50000		< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0	< 10	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10						
Methylene chloride			2000	50000		< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0	<2.0	<2.0	<2.0	
Naphthalene			700	20000		< 10	< 5.0	0.68 J	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 5.0	<5.0	<5.0	<5.0	
n-Propylbenzene			NS	NS		< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 5.0				
Styrene			100	6000		< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0	< 10	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 5.0				
Tert-amyl methyl ether			NS	NS		< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0 K-	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0	<2.0	<2.0	<2.0	
Tert-butyl ethyl ether			NS	NS		< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0				
1,1,1,2-Tetrachloroethane			10	50000		< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0	< 10	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	<1.0	<1.0	<1.0	
1,1,2,2-Tetrachloroethane			9	50000		< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0 J+	< 2.0 J+	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0						
Tetrachloroethylene (PCE)			20	30000		110	267	257 J+	603	607	864	839	795	796 G	1020	1010	860	933	323	166	774	778	527	396	618	670	726	695	450	436	482	456	233	
Tetrahydrofuran			NS	NS		< 20	< 10	< 10	< 10	< 10	< 20	< 10	< 20	< 10	< 20 F+	< 20	< 50	< 10	< 10	< 10	< 10	< 10	< 20	< 10	13.3 J	15.7 J	<20	<20	<20	< 10	<10	<10	<10	
Toluene			50000	40000		< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	
1,2,3-Trichlorobenzene			NS	NS		< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10					
1,2,4-Trichlorobenzene			200	50000		< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10					
1,1,1-Trichloroethane (TCA)			4000	20000		9.2	3.3	2.5	10.7	10.7	16.0	15.6	12.8	16.6	8.5	14.3 J+	8.2	10.2	4.2	3.8	8.0	8.3	6.0	3.0	6.7	7.3	8.0	7.6	3.8	4.4	3.8	3.7	1.8	
1,1,2-Trichloroethane			900	50000		< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	
Trichloroethylene (TCE)			5	5000		129	66.3	53.6	175	174	257	269	229	341	196	267	195	212	88.7	57.7	181	182	126	95.4	164	182	188	183	113	139	131	129	83.3	
Trichlorofluoromethane			NS	NS		< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0						
1,2,3-Trichloropropane			NS	NS		< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10						
1,2,4-Trimethylbenzene			NS	NS		< 10	< 5.0	0.69 J	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	1.0 J	< 5.0	< 10	< 10	< 10	< 10						
1,3,5-Trimethylbenzene			NS	NS		< 10	< 5.0	0.24 J	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 F-	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10	< 10	< 10						
Vinyl chloride			2	50000		76.4	3.1	2.3	2.6	2.7	7.2	21.3	13.9	6.3	6.1	6.9	5.7	6.1	13.5	9.0	8.8 K+	8.8 K+	3.8	< 1.0	1.8 J	2.2	3.8	3.8	< 2.0	< 1.0	1.6	1.4	<1.0	
m,p-Xylene			3000	5000		< 2.0	< 1.0	1.2	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	
o-Xylene			3000	5000		< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	
Total Xylene			3000	5000		< 2.0	< 1.0	1.2	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D
					Sample Name:	MW900 (FD)	MW116	MW900 (FD)	MW116	MW900 (FD)	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D
					Well Screen Interval (ft bgs):	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70
					Sample Date:	4/4/18	4/16/19	4/16/19	4/17/20	4/17/20	4/14/21	4/14/21	4/14/22	4/14/22	4/18/23	4/18/23	4/3/24	4/3/24	4/24/25	4/24/25	11/11/25	11/11/25	7/19/07	10/11/07	1/15/08	4/16/08	7/16/08	10/21/08	1/13/09	4/14/09	7/15/09	10/14/09	4/13/10	4/20/11
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																														
Acetone			50000	50000		<10	<10	<10	<25	<25	<12	<12	<5.0	<5.0	<5.0	<5.0	<12	<10	<5.0	<5.0	<10	<10	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0
Acrylonitrile			NS	NS															NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000		<0.50	<0.50	<0.50	<2.5	<2.5	<1.2	<1.2	<0.50	<0.50	<0.50	<0.50	<1.2	<1.0	<0.50	<0.5	<0.50	<0.5	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene			NS	NS													<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromochloromethane			NS	NS													<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane			6	50000		<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<2.5	<2.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			700	50000													<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			7	800													<5.0	<4.0	<2.0	<2.0	<2.0 K-	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Butanone (MEK)			50000	50000		<10	<10	<10	<25	<25	<25	<25	<5.0	<5.0	<5.0	<5.0	<12	<10	<5.0	<5.0	<5.0	<5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Butylbenzene			NS	NS													<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene			NS	NS													<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene			NS	NS													<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			NS	NS		<2.0	<2.0	<2.0	<10	<10	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	6.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			2	5000		<1.0	<1.0	<1.0	<5.0	<5.0	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<2.5	<2.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000		<1.0	<1.0	<1.0	<5.0	<5.0	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<2.5	<2.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			NS	NS		<1.0	<1.0	<1.0	<10	<10	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			50	20000		<1.0	<1.0	<1.0	<5.0	<5.0	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<2.5	<2.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			NS	NS		<1.0	<1.0	<1.0	<10	<10	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Chlorotoluene			NS	NS													<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene			NS	NS													<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS													<5.0	<4.0	<2.0	<2.0	<2.0	<2.0 G	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane			20	50000													<2.5	<2.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane			2	50000													<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS													<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene			8000	2000													<2.5	<2.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000													<2.5	<2.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene			60	8000		<1.0	<1.0	<1.0	<5.0	<5.0	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<2.5	<2.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS													<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1-Dichloroethane			2000	20000		46.2	22.7	53.9	70	75	39	40	30	29	28	27	21	22	26	25	18	22	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane			5	20000		<1.0	<1.0	<1.0	<5.0	<5.0	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<2.5	<2.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000		20.9	9.4	31.3	30	39	27	27	20	20	23	23	25	26	22	22	13	12	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethylene			20	50000		44.2	27.3	112.0	120	130	110	110	140	130	150	150	56	57	110	110	57	60	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethylene			90	50000		1.2	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.5	<2.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane			3	50000		<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.5	<2.0	<1.0	<1.0	<1.0	<1.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3-Dichloropropane																	<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane																	<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene																	<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene			10	200													<1.0	<0.8	<0.4	<0.40	<0.4	<0.40	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene			10	200													<1.0	<0.8	<0.40	<0.40	<0.40	<0.40	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl ether (Ethyl ether)																	<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Di-Isopropyl ether																	<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,4-Dioxane			5000	50000		<130	<130	<130	<1200	<1200	<620	<620	<250	<250	<250	<250	<620	<500	<250	<250	<50	<250	NT	< 25	< 25	< 25	< 25	< 25	< 25 J+	< 25 J+	< 25	< 25	< 25
Ethylbenzene			20000	5000		<1.0	<1.0	<1.0	<5.0	<5.0	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<2.5	<2.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000													<1.5	<1.2	<0.60	<0.60	<0.60	<0.60	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone			NS	NS		<5.0	<5.0	<5.0	<25	<25	<12	<12	<5.0	<5.0	<5.0	<5.0	<12	<10	<5.0	<5	<5.0	<5	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			NS	NS													<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene			NS	NS		<2.0	<2.0	<2.0	<10	<10	<10	<10	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000		1.2	<1.0	3.5	<10	<10	<5.0	<5.0	2.3	2.2	2.3	2.2	<5.0	<4.0	<2.0	<2.0	1.6	1.8	NT	1.6	2.3	1.5	< 1.0	1.5	0.96 J	0.86 J	1.3	1.5	1.2	< 1.0
4-Methyl-2-pentanone (MIBK)			50000	50000													<12	<10	<5.0	<5.0	<5.0	<5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride			2000	50000		<2.0	<2.0	<2.0	<10	<10	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			700	20000		<5.0	<5.0	<5.0	<10	<10	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	4.9 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
n-Propylbenzene			NS	NS													<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene			100	6000													<2.5	<2.0	<1.0	<1.0	<1.0	<1.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tert-amyl methyl ether			NS	NS		<2.0	<2.0	<2.0	<10	<10	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS													<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000		<1.0	<1.0	<1.0	<5.0	<5.0	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<2.5	<2.0	<1.0	<1.0	<1.0	<1.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane			9	50000													<2.5	<2.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			20	30000		253	129	404	520	550	340	340	120	120	130	130	310	340	160	150	130	140	0.54 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrahydrofuran			NS	NS		<10	<10	<10	<10	<10	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 10	< 10	< 10	< 10	< 10	< 10	< 10 J+	< 10	< 10	< 10	< 10
Toluene			50000	40000		<1.0	<1.0	<1.0	<5.0	<5.0	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<2.5	<2.0	<1.0	<1.0	<1.0	<1.0	NT	0.98 J	< 1.0	0.34 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS													<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene			200	50000													<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000		2.0	1.0	2.6	<5.0	<5.0	2.6	2.6	3.2	3.2	2.8	2.8	2.6	2.7	2.6	2.6	1.7	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane			900	50000		<1.0	<1.0	<1.0	<5.0	<5.0	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<2.5	<2.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000		86.3	37	157	200	220	120	120	35	34	53	54	86	90	68	66	40	39	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane			NS	NS													<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane			NS	NS													<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene			NS	NS													<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene			NS	NS													<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride			2	50000		<1.0	<1.0	20.2	22	29	50	49	130	120	87	86	5	5	61	61	16	20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m,p-Xylene			3000	5000		<1.0	<1.0	<1.0	<10	<10	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0	<2.0	<2.0	<2.0	<2.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene			3000	5000		<1.0	<1.0	<1.0	<5.0	<5.0	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<2.5	<2.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylene			3000	5000		<1.0	<1.0	<1.0	<5.0	<5.0	<2.5	<2.5	<2.0	<2.0	<2.0	<2.0	<2.5	<2.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	Sample Name:	Well Screen Interval (ft bgs):	Sample Date:	Collected By:
					MW117D	MW117D 60 to 70 4/16/12	60 to 70	4/16/12	GEI
					MW117D	MW117D 60 to 70 4/24/13	60 to 70	4/24/13	GEI
					MW117D	MW117D 60 to 70 5/1/14	60 to 70	5/1/14	GEI
					MW117D	MW117D 60 to 70 4/2/15	60 to 70	4/2/15	GEI
					MW117D	MW117D 60 to 70 4/28/16	60 to 70	4/28/16	GEI
					MW117D	MW117D 60 to 70 4/17/17	60 to 70	4/17/17	GEI
					MW117D	MW117D 60 to 70 4/3/18	60 to 70	4/3/18	GEI
					MW117D	MW117D 60 to 70 4/15/19	60 to 70	4/15/19	GEI
					MW117D	MW117D 60 to 70 4/16/20	60 to 70	4/16/20	GEI
					MW117D	MW117D 60 to 70 4/13/21	60 to 70	4/13/21	GEI
					MW117D	MW117D 60 to 70 4/12/22	60 to 70	4/12/22	GEI
					MW117D	MW117D 60 to 70 4/17/23	60 to 70	4/17/23	GEI
					MW117D	MW117D 60 to 70 4/2/24	60 to 70	4/2/24	GEI
					MW117D	MW117D 60 to 70 4/22/25	60 to 70	4/22/25	GEI
					MW117D	MW117D 60 to 70 11/10/25	60 to 70	11/10/25	GEI
					MW117S	MW117S 5 to 20 7/18/07	5 to 20	7/18/07	GEI
					MW117S	MW117S 5 to 20 10/15/07	5 to 20	10/15/07	GEI
					MW117S	MW117S 5 to 20 1/11/08	5 to 20	1/11/08	GEI
					MW117S	MW117S 5 to 20 4/16/08	5 to 20	4/16/08	GEI
					MW117S	MW117S 5 to 20 7/16/08	5 to 20	7/16/08	GEI
					MW117S	MW117S 5 to 20 10/21/08	5 to 20	10/21/08	GEI
					MW117S	MW117S 5 to 20 1/13/09	5 to 20	1/13/09	GEI
					MW117S	MW117S 5 to 20 4/14/09	5 to 20	4/14/09	GEI
					MW117S	MW117S 5 to 20 7/15/09	5 to 20	7/15/09	GEI
					MW117S	MW117S 5 to 20 10/14/09	5 to 20	10/14/09	GEI
					MW117S	MW117S 5 to 20 4/13/10	5 to 20	4/13/10	GEI
					MW117S	MW117S 5 to 20 4/21/11	5 to 20	4/21/11	GEI
					MW117S	MW117S 5 to 20 4/16/12	5 to 20	4/16/12	GEI
					MW117S	MW117S 5 to 20 4/24/13	5 to 20	4/24/13	GEI
					MW117S	MW117S 5 to 20 5/1/14	5 to 20	5/1/14	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l							
Acetone			50000	50000	< 5.0	< 10	< 10	< 10	< 10	<10	<10	<10	<5.0	<5.0	5.8	<5.0	<5.0	<5.0	<10.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10
Acrylonitrile			NS	NS	NT	NT	NT	NT	NT										NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromochloromethane			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane			6	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			700	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0										<2.0	<2.0	<2.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			7	800	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0										<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Butanone (MEK)			50000	50000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Butylbenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			2	5000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			50	20000	< 1.0	< 1.0	< 1.0	< 1.0	2.0	0.43 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	< 1.0	< 1.0
Chloromethane			NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Chlorotoluene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane			20	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0										<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane			2	50000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0										<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene			8000	2000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0										<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0										<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene			60	8000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS	< 2.0	< 2.0	< 2.0 K-	< 2.0 K-	< 2.0 K-										<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 K-
1,1-Dichloroethane			2000	20000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane			5	20000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethylene			20	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethylene			90	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane			3	50000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3-Dichloropropane					< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane					< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene					< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene			10	200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50										<0.4	<0.40	<0.40	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene			10	200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50										<0.4	<0.40	<0.40	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl ether (Ethyl ether)					< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Di-Isopropyl ether					< 2.0	< 2.0	< 2.0	< 2.0	< 2.0										<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,4-Dioxane			5000	50000	< 25	< 25	< 25	< 25	< 25	<130	<130	<130	<250	<250	<250	<250	<250	<250	<50	NT	< 25	< 25	< 25	< 25	< 25	< 25	< 25 J+	< 25 J+	< 25	< 25	< 25	< 25	< 50	< 25
Ethylbenzene			20000	5000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0								<0.6	<0.60	<0.60	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000	< 1.0	6.8	< 1.0	< 1.0	0.66 J	1.3	<1.0	1.4	2	2	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 K-	< 1.0
4-Methyl-2-pentanone (MIBK)			50000	50000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										<5.0	<5.0	<5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride			2000	50000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			700	20000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene			100	6000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										<1.0	<1.0	<1.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tert-amyl methyl ether			NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0										<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane			9	50000	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50										<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50
Tetrachloroethylene (PCE)			20	30000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrahydrofuran			NS	NS	< 10	< 10	< 10	< 10	< 10	<10	<10	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 10	< 10	< 10	< 10	< 10	< 10	< 10 J+	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene			50000	40000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene			200	50000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane			900	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane			NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0										<2.0	<2.0	<2.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride			2	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m,p-Xylene			3000	5000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW117S	MW117S	MW117S	MW117S	MW117S	MW117S	MW117S	MW117S	MW117S	MW117S	MW117S	MW117S	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T
					Sample Name:	MW117S 5 to 20 4/2/15 GEI	MW117S 5 to 20 4/27/16 GEI	MW117S 5 to 20 4/17/17 GEI	MW117S 5 to 20 4/3/18 GEI	MW117S 5 to 20 4/15/19 GEI	MW117S 5 to 20 4/16/20 GEI	MW117S 5 to 20 4/13/21 GEI	MW117S 5 to 20 4/12/22 GEI	MW117S 5 to 20 4/17/23 GEI	MW117S 5 to 20 4/2/24 GEI	MW117S 5 to 20 4/22/25 GEI	MW117S 5 to 20 11/10/25 GEI	MW117T 35 to 45 7/19/07 GEI	MW117T 35 to 45 10/11/07 GEI	MW117T 35 to 45 1/15/08 GEI	MW117T 35 to 45 4/16/08 GEI	MW117T 35 to 45 7/16/08 GEI	MW117T 35 to 45 10/21/08 GEI	MW117T 35 to 45 1/13/09 GEI	MW117T 35 to 45 4/14/09 GEI	MW117T 35 to 45 7/15/09 GEI	MW117T 35 to 45 10/16/09 GEI	MW117T 35 to 45 4/13/10 GEI	MW117T 35 to 45 4/21/11 GEI	MW117T 35 to 45 4/16/12 GEI	MW117T 35 to 45 4/23/13 GEI	MW117T 35 to 45 5/1/14 GEI	MW117T 35 to 45 4/2/15 GEI	MW117T 35 to 45 4/27/16 GEI	MW117T 35 to 45 4/17/17 GEI
					Well Screen Interval (ft bgs):																														
					Sample Date:																														
					Collected By:																														
Volatile Organic Compounds (VOCs)	8260	µg/l																																
Acetone			50000	50000		< 10	< 10	<10	<10	<0.10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 K-	< 10	< 10	< 10	< 10	<10
Acrylonitrile			NS	NS		NT	NT										NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
Benzene			1000	10000		< 0.50	< 0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50	<0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50
Bromobenzene			NS	NS		< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Bromochloromethane			NS	NS		< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Bromodichloromethane			6	50000		< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Bromoform			700	50000		< 1.0	< 1.0								<2.0	<2.0	<2.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Bromomethane			7	800		< 2.0	< 2.0								<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
2-Butanone (MEK)			50000	50000		< 5.0	< 5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<10
n-Butylbenzene			NS	NS		< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
sec-Butylbenzene			NS	NS		< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
tert-Butylbenzene			NS	NS		< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Carbon disulfide			NS	NS		< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0
Carbon tetrachloride			2	5000		< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Chlorobenzene			200	1000		< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Chloroethane			NS	NS		< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0
Chloroform			50	20000		< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Chloromethane			NS	NS		< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0
2-Chlorotoluene			NS	NS		< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
4-Chlorotoluene			NS	NS		< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
1,2-Dibromo-3-chloropropane			NS	NS		< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Dibromochloromethane			20	50000		< 1.0	< 1.0								<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dibromoethane			2	50000		< 2.0	< 2.0								<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Dibromomethane (Methylene bromide)			NS	NS		< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
1,2-Dichlorobenzene			8000	2000		< 1.0	< 1.0								<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichlorobenzene			6000	50000		< 1.0	< 1.0								<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,4-Dichlorobenzene			60	8000		< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Dichlorodifluoromethane			NS	NS		< 2.0 K-	< 2.0 K-								<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 K-	< 2.0 K-	< 2.0 K-	
1,1-Dichloroethane			2000	20000		< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
1,2-Dichloroethane			5	20000		< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
1,1-Dichloroethylene			80	30000		< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
cis-1,2-Dichloroethylene			20	50000		< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
trans-1,2-Dichloroethylene			90	50000		< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
1,2-Dichloropropane			3	50000		< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0
1,3-Dichloropropane						< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
2,2-Dichloropropane						< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	
1,1-Dichloropropene						< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
cis-1,3-Dichloropropene			10	200		< 0.50	< 0.50								<0.4	<0.40	<0.40	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
trans-1,3-Dichloropropene			10	200		< 0.50	< 0.50								<0.4	<0.40	<0.40	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Diethyl ether (Ethyl ether)						< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Di-Isopropyl ether						< 2.0	< 2.0								<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
1,4-Dioxane			5000	50000		< 25	< 25	<130	<130	<130	<250	<250	<250	<250	<250	<250	<250	<250	NT	< 25	< 25	< 25	< 25	< 25	< 25	< 25 J+	< 25	< 25	< 25	< 25	< 25	< 50	< 25	< 25	< 25	<130
Ethylbenzene			20000	5000		< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Hexachlorobutadiene			50	3000		< 5.0	< 5.0	<2.0	<2.0						<0.6	<0.60	<0.60	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0
2-Hexanone			NS	NS		< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0
Isopropyl benzene			NS	NS		< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
4-Isopropyltoluene			NS	NS		< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0
Methyl tert-butyl ether			50000	50000		< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	3.4	9.8	4.8	1.7	2.8	1.9	4.1	1.5	7.0	1.6	1.4	< 1.0	< 1.0 K-	< 1.0	< 1.0	< 1.0	<1.0
4-Methyl-2-pentanone (MIBK)			50000	50000		< 5.0	< 5.0								<5.0	<5.0	<5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Methylene chloride			2000	50000		< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0
Naphthalene			700	20000		< 5.0	< 5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0
n-Propylbenzene			NS	NS		< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Styrene			100	6000		< 5.0	< 5.0								<1.0	<1.0	<1.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Tert-amyl methyl ether			NS	NS		< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0
Tert-butyl ethyl ether			NS	NS		< 2.0	< 2.0								<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
1,1,1,2-Tetrachloroethane			10	50000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane			9	50000		< 0.50	< 0.50								<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	
Tetrachloroethylene (PCE)			20	30000		< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Tetrahydrofuran			NS	NS		< 10	< 10	<10	<10	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10
Toluene			50000	40000		< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
1,2,3-Trichlorobenzene			NS	NS		< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
1,2,4-Trichlorobenzene			200	50000		< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
1,1,1-Trichloroethane (TCA)			4000	20000		< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
1,1,2-Trichloroethane			900	50000		< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Trichloroethylene (TCE)			5	5000		< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Trichlorofluoromethane			NS	NS		< 1.0	< 1.0								<2.0	<2.0	<2.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,3-Trichloropropane			NS	NS		< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
1,2,4-Trimethylbenzene			NS	NS		< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
1,3,5-Trimethylbenzene			NS	NS		< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Vinyl chloride			2	50000		< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
m,p-Xylene			3000	5000		< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
o-Xylene			3000	5000		< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Total Xylene			3000	5000		< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0

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B:\Private\04516\15.0 Report Original\15.162 Ph V SR 29 RMR 44 (Feb 2026)\Tables\Table 4-5 Chemical Testing Results - Groundwater

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	Sample Name:	Well Screen Interval (ft bgs):	Sample Date:	Collected By:
					MW117T	MW117T	MW117T	MW117T	MW117T
					35 to 45	35 to 45	35 to 45	35 to 45	35 to 45
					4/3/18	4/15/19	4/16/20	4/13/21	4/12/22
					GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l							
Acetone			50000	50000	<10	<10	<5.0	<5.0	<5.0
Acrylonitrile			NS	NS					
Benzene			1000	10000	<0.50	<0.50	<0.5	<0.5	<0.5
Bromobenzene			NS	NS					
Bromochloromethane			NS	NS					
Bromodichloromethane			6	50000	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform			700	50000					
Bromomethane			7	800					
2-Butanone (MEK)			50000	50000	<10	<10	<5.0	<5.0	<5.0
n-Butylbenzene			NS	NS					
sec-Butylbenzene			NS	NS					
tert-Butylbenzene			NS	NS					
Carbon disulfide			NS	NS	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride			2	5000	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene			200	1000	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane			NS	NS	<1.0	<1.0	<2.0	<2.0	<2.0
Chloroform			50	20000	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane			NS	NS	<1.0	<1.0	<2.0	<2.0	<2.0
2-Chlorotoluene			NS	NS					
4-Chlorotoluene			NS	NS					
1,2-Dibromo-3-chloropropane			NS	NS					
Dibromochloromethane			20	50000					
1,2-Dibromoethane			2	50000					
Dibromomethane (Methylene bromide)			NS	NS					
1,2-Dichlorobenzene			8000	2000					
1,3-Dichlorobenzene			6000	50000					
1,4-Dichlorobenzene			60	8000	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane			NS	NS					
1,1-Dichloroethane			2000	20000	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane			5	20000	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene			80	30000	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethylene			20	50000	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethylene			90	50000	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane			3	50000	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane									
2,2-Dichloropropane									
1,1-Dichloropropene									
cis-1,3-Dichloropropene			10	200					
trans-1,3-Dichloropropene			10	200					
Diethyl ether (Ethyl ether)									
Di-Isopropyl ether									
1,4-Dioxane			5000	50000	<130	<130	<250	<250	<250
Ethylbenzene			20000	5000	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachlorobutadiene			50	3000	<2.0	<2.0			
2-Hexanone			NS	NS	<5.0	<5.0	<5.0	<5.0	<5.0
Isopropyl benzene			NS	NS					
4-Isopropyltoluene			NS	NS	<2.0	<2.0	<2.0	<2.0	<2.0
Methyl tert-butyl ether			50000	50000	<1.0	<1.0	<2.0	<2.0	<2.0
4-Methyl-2-pentanone (MIBK)			50000	50000					
Methylene chloride			2000	50000	<2.0	<2.0	<2.0	<2.0	<2.0
Naphthalene			700	20000	<5.0	<5.0	<2.0	<2.0	<2.0
n-Propylbenzene			NS	NS					
Styrene			100	6000					
Tert-amyl methyl ether			NS	NS	<2.0	<2.0	<2.0	<2.0	<2.0
Tert-butyl ethyl ether			NS	NS					
1,1,1,2-Tetrachloroethane			10	50000	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane			9	50000					
Tetrachloroethylene (PCE)			20	30000	<1.0	1.3	<1.0	<1.0	<1.0
Tetrahydrofuran			NS	NS	<10	<10	<2.0	<2.0	<2.0
Toluene			50000	40000	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene			NS	NS					
1,2,4-Trichlorobenzene			200	50000					
1,1,1-Trichloroethane (TCA)			4000	20000	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane			900	50000	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethylene (TCE)			5	5000	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane			NS	NS					
1,2,3-Trichloropropane			NS	NS					
1,2,4-Trimethylbenzene			NS	NS					
1,3,5-Trimethylbenzene			NS	NS					
Vinyl chloride			2	50000	<1.0	<1.0	<1.0	<1.0	<1.0
m,p-Xylene			3000	5000	<1.0	<1.0	<2.0	<2.0	<2.0
o-Xylene			3000	5000	<1.0	<1.0	<1.0	<1.0	<1.0
Total Xylene			3000	5000	<1.0	<1.0	<1.0	<1.0	<1.0

Analyte	MW117T 35 to 45 4/2/24 GEI	MW117T 35 to 45 4/22/25 GEI	MW117T 35 to 45 11/10/25 GEI	MW118D 70 to 80 7/20/07 GEI	MW118D 70 to 80 8/30/07 GEI	MW118D 70 to 80 10/11/07 GEI	MW118D 70 to 80 1/16/08 GEI	MW118D 70 to 80 4/16/08 GEI	MW118D 70 to 80 7/16/08 GEI	MW118D 70 to 80 10/21/08 GEI	MW118D 70 to 80 1/14/09 GEI	MW118D 70 to 80 4/14/09 GEI	MW118D 70 to 80 7/15/09 GEI	MW118D 70 to 80 10/14/09 GEI	MW901 (FD 70 to 80 10/14/09 GEI	MW118D 70 to 80 4/12/10 GEI	MW118D 70 to 80 4/20/11 GEI	MW118D 70 to 80 4/16/12 GEI	MW118D 70 to 80 11/12/12 GEI	MW118D 70 to 80 4/24/13 GEI	MW118D 70 to 80 11/18/13 GEI	MW118D 70 to 80 5/1/14 GEI	MW118D 70 to 80 11/18/14 GEI	MW118D 70 to 80 4/2/15 GEI
Acetone	<5.0	<5.0	<10	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0 K-	< 10	< 10 K-	< 10	< 10	< 10
Acrylonitrile		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene	<0.5	<0.50	<0.50	NT	NT	< 0.50	0.24 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromochloromethane	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	<2.0	<2.0	<2.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 G	< 2.0 G
2-Butanone (MEK)	<5.0	<5.0	<5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 K-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Butylbenzene	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	1.6 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 G	< 2.0
Chloroform	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 G	< 2.0
2-Chlorotoluene	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromomethane (Methylene bromide)	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 K-	< 2.0 G K-	< 2.0 G K-
1,1-Dichloroethane	<1.0	<1.0	<1.0	20.3	21.4	31.2	31.7	33.3	34.3	22.8	26.0	22.8	28.7	41.2	39.5	40.0	43.5	36.9	41.4	38.5	39.1	40.6	47.9	46.6
1,2-Dichloroethane	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.55 J	< 1.0	< 1.0	< 1.0	0.79 J K+	0.90 J
cis-1,2-Dichloroethylene	<1.0	<1.0	<1.0	0.55 J	< 1.0	< 1.0	< 1.0	< 1.0	0.96 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.3	1.2	1.6	2.7	5.1	6.5	6.8	6.9
trans-1,2-Dichloroethylene	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.74 J	0.68 J	< 1.0 K+	0.62 J
1,2-Dichloropropane	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3-Dichloropropane	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	<0.4	<0.40	<0.40	NT	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	<0.4	<0.40	<0.40	NT	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl ether (Ethyl ether)	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Di-Isopropyl ether	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,4-Dioxane	<250	<250	<50	NT	NT	< 25	< 25	< 25	< 25	< 25	< 25	< 25 J+	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 50	< 50	< 25	< 25	< 25
Ethylbenzene	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	<0.6	<0.60	<0.60	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone	<5.0	<5.0	<5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 K-	< 5.0	< 5.0
Isopropyl benzene	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.93 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether	<2.0	<2.0	<2.0	NT	NT	< 1.0	0.40 J	< 1.0	0.40 J	< 1.0	< 1.0	0.38 J	0.39 J	0.55 J	0.51 J	< 1.0	0.83 J	< 1.0	0.63 J	< 1.0	0.46 J	< 1.0	1.9 K+	0.69 J
4-Methyl-2-pentanone (MIBK)	<5.0	<5.0	<5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 F- K-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	1.1 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene	<1.0	<1.0	<1.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tert-amyl methyl ether	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50
Tetrachloroethylene (PCE)	<1.0	<1.0	<1.0	7.0	8.4	8.2	6.1	5.7	7.1	2.1	1.2	< 1.0	2.3	0.93 J	1.1	1.5	4.6	8.4	4.3	5.8	1.3	< 1.0	2.2	5.1
Tetrahydrofuran	<2.0	<2.0	<2.0	NT	NT	< 10	< 10	< 10	< 10	< 10	< 10	< 10 J+	< 10	< 10	< 10	< 10	< 10	< 10	< 10 F- K-	< 10	< 10	< 10	< 10	< 10
Toluene	<1.0	<1.0	<1.0	NT	NT	< 1.0	0.62 J	< 1.0	0.27 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	1.6 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane (TCA)	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)	<1.0	<1.0	<1.0	1.2	3.9	1.8	0.94 J	1.0	1.9	< 1.0	1.9	1.5	3.0	6.1	6.3	10.0	11.9	7.4	11.5	7.7	7.3	4.3	6.9	4.6
Trichlorofluoromethane	<2.0	<2.0	<2.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 G K-	< 1.0 G K-
1,2,3-Trichloropropane	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride	<1.0	<1.0	<1.0	< 1.0	2.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 G K-	< 1.0
m,p-Xylene	<2.0	<2.0	<2.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S
					Sample Name:	MW118D 70 to 80 11/19/15 GEI	MW118D 70 to 80 4/28/16 GEI	MW118D 70 to 80 11/21/16 GEI	MW118D 70 to 80 4/17/2017 GEI	MW118D 70 to 80 11/8/2017 GEI	MW118D 70 to 80 4/3/2018 GEI	MW118D 70 to 80 11/15/2018 GEI	MW118D 70 to 80 4/15/2019 GEI	MW118D 70 to 80 11/22/2019 GEI	MW118D 70 to 80 4/16/2020 GEI	MW118D 70 to 80 11/18/2020 GEI	MW118D 70 to 80 4/13/2021 GEI	MW118D 70 to 80 11/30/2021 GEI	MW118D 70 to 80 4/12/2022 GEI	MW118D 70 to 80 11/29/2022 GEI	MW118D 70 to 80 4/17/2023 GEI	MW118D 70 to 80 11/7/2023 GEI	MW118D 70 to 80 4/2/2024 GEI	MW118D 70 to 80 11/14/2024 GEI	MW118D 71 to 80 4/22/2025 GEI	MW118D 71 to 80 11/10/2025 GEI	MW118S 3 to 14 7/20/07 GEI	MW118S 3 to 14 8/30/07 GEI	MW118S 3 to 14 10/11/07 GEI	MW118S 3 to 14 1/11/08 GEI	MW118S 3 to 14 4/16/08 GEI	MW118S 3 to 14 7/15/08 GEI	MW118S 3 to 14 10/21/08 GEI
					Well Screen Interval (ft bgs):																													
					Sample Date:																													
					Collected By:																													
Volatile Organic Compounds (VOCs)	8260	µg/l																																
Acetone			50000	50000		< 10	< 10	< 10	<10	< 10	< 10	< 10	< 10	< 10	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5	<5.0	<5.0	<5.0	<10	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Acrylonitrile			NS	NS		NT	NT													NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000		< 0.50	< 0.50	< 0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NT	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene			NS	NS		< 5.0	< 5.0													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromochloromethane			NS	NS		< 5.0	< 5.0													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane			6	50000		< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			700	50000		< 1.0	< 1.0													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			7	800		< 2.0 G	< 2.0 G													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Butanone (MEK)			50000	50000		< 5.0	< 5.0	< 10	<10	< 10	< 10	< 10	< 10	< 10	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5	<5.0	<5.0	<5.0	<5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Butylbenzene			NS	NS		< 5.0	< 5.0													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene			NS	NS		< 5.0	< 5.0													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene			NS	NS		< 5.0	< 5.0													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			NS	NS		< 5.0	< 5.0	< 5.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0
Carbon tetrachloride			2	5000		< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000		< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			NS	NS		4.8	3.1	3.1	1.1	3.4	3.7	1.1	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	9	5.6	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			50	20000		< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			NS	NS		< 2.0	< 2.0	< 2.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0
2-Chlorotoluene			NS	NS		< 5.0	< 5.0													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene			NS	NS		< 5.0	< 5.0													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS		< 5.0	< 5.0													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane			20	50000		< 1.0	< 1.0													<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane			2	50000		< 2.0	< 2.0													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS		< 5.0	< 5.0													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene			8000	2000		< 1.0	< 1.0													<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000		< 1.0	< 1.0													<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene			60	8000		< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS																<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0 J+	< 2.0
1,1-Dichloroethane			2000	20000		39.3	43.9	37.7	34.8	27.4	21.9	20.0	18.6	33.9	44	27	25	22	30	29	28	26	22	<1.0	12	16	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane			5	20000		< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000		1.6	1.8	0.85 J	0.78 J	< 1.0	< 1.0	< 1.0	<1.0	2.6	2.4	1.3	< 1.0	< 1.0	< 1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethylene			20	50000		5.6	27.8	8.6	7.9	5	4.3	3.7	3.2	57.3	53	10	5.8	4.7	4.1	3.9	3.4	3.1	2.5	1.3	2.3	2.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethylene			90	50000		2.2	2.9	0.81 J	0.55 J	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane			3	50000		< 2.0	< 2.0	< 2.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3-Dichloropropane						< 5.0	< 5.0													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane						< 5.0	< 5.0													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0
1,1-Dichloropropene						< 5.0	< 5.0													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene			10	200		< 0.50	< 0.50													<0.4	<0.4	<0.4	<0.4	<0.4	<0.40	<0.40	NT	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene			10	200		< 0.50	< 0.50													<0.4	<0.4	<0.4	<0.4	<0.4	<0.40	<0.40	NT	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl ether (Ethyl ether)						< 5.0	< 5.0													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Di-Isopropyl ether						< 2.0	< 2.0													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,4-Dioxane			5000	50000		< 25	< 25	< 50	<130	< 130	< 130	< 130	< 130	< 130	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<50	NT	NT	< 25	< 25	< 25	< 25	< 25
Ethylbenzene			20000	5000		< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000		< 5.0	< 5.0	< 5.0												<0.6	<0.6	<0.6	<0.6	<0.6	<0.60	<0.60	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone			NS	NS		< 5.0	< 5.0	< 10	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5	<5.0	<5.0	<5.0	<5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			NS	NS		< 5.0	< 5.0													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene			NS	NS		< 5.0	< 5.0	< 5.0	<2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	2.6	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000		0.89 J	< 1.0	1.3	0.81 J	< 1.0	1.1	1.3	1.3	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	1.1	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-pentanone (MIBK)			50000	50000																<5	<5	<5	<5.0	<5.0	<5.0	<5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride			2000	50000		< 2.0	< 2.0	< 2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			700	20000		< 5.0	< 5.0	< 5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene			NS	NS		< 5.0	< 5.0													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene			100	6000		< 5.0	< 5.0													<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tert-amyl methyl ether			NS	NS		< 2.0	< 2.0	< 2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS		< 2.0	< 2.0													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000		< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane			9	50000																<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			20	30000		39.7	49.8	6.5	5.8	2.7	2.7	1.8	1.6	40.9	38	27	2.2	1.1	<1.0	1.1	<1	1.5	<1.0	<1.0	<1.0	<1.0	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrahydrofuran			NS	NS		< 10	< 10	< 10	<10	< 10	< 10	< 10	< 10	< 10	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 10	< 10	< 10	< 10	< 10
Toluene			50000	40000		< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS		< 5.0	< 5.0													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene			200	50000		< 5.0	< 5.0													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000		< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane			900	50000		< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000		17.6	14.4	3.3	2.6	1.7	1.5	1.5	1.1	11.4	11	7.9	2.7	1.7	<1.0	1.1	1.1	1.3	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane			NS	NS																<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane			NS	NS																<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene			NS	NS																<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene			NS	NS																<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride			2	50000		1.9	20.2	3.1	0.93 J	2.4	1.9	< 1.0	1.1	11.8	19	3.8	3.3	1.9	<1.0	2.6	2.6	1.3	2.2	<1.0	1.5	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m,p-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylene			3000	5000		< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T
					Sample Name:	MW118S 3 to 14 1/14/09 GEI	MW118S 3 to 14 4/15/09 GEI	MW118S 3 to 14 7/15/09 GEI	MW118S 3 to 14 10/14/09 GEI	MW118S 3 to 14 4/12/10 GEI	MW118S 3 to 14 4/20/11 GEI	MW118S 3 to 14 4/24/13 GEI	MW118S 3 to 14 5/1/14 GEI	MW118S 3 to 14 4/2/15 GEI	MW118S 3 to 14 4/28/16 GEI	MW118S 3 to 14 4/17/17 GEI	MW118S 3 to 14 4/3/18 GEI	MW118S 3 to 14 4/15/19 GEI	MW118S 3 to 14 4/16/20 GEI	MW118S 3 to 14 4/13/21 GEI	MW118S 3 to 14 4/12/22 GEI	MW118S 3 to 14 4/17/23 GEI	MW118S 3 to 14 4/2/24 GEI	MW118S 3 to 14 4/22/25 GEI	MW118S 3 to 14 11/10/25 GEI	MW118T 39.5 to 49.5 7/20/07 GEI	MW118T 39.5 to 49.5 8/30/07 GEI	MW118T 39.5 to 49.5 10/11/07 GEI	MW118T 39.5 to 49.5 1/15/08 GEI	MW118T 39.5 to 49.5 4/16/08 GEI	MW118T 39.5 to 49.5 7/15/08 GEI	MW118T 39.5 to 49.5 10/21/08 GEI	MW118T 39.5 to 49.5 1/14/09 GEI
					Well Screen Interval (ft bgs):																												
					Sample Date:																												
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																														
Acetone			50000	50000		< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 10	< 10	< 10	< 10	<10	<10	<10	40	<5.0	<5.0	<5.0	<5.0	<5.0	<10	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Acrylonitrile			NS	NS		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT									NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000		< 0.50	< 0.50 J+	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	NT	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene			NS	NS		< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromochloromethane			NS	NS		< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane			6	50000		< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			700	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0									<2.0	<2.0	<2.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			7	800		< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0									<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Butanone (MEK)			50000	50000		< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Butylbenzene			NS	NS		< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			NS	NS		< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			2	5000		< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			NS	NS		< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			50	20000		< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			NS	NS		< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0
2-Chlorotoluene			NS	NS		< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene			NS	NS		< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS		< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane			20	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0									<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane			2	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0									<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS		< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene			8000	2000		< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0									<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000		< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0									<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene			60	8000		< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS		< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 K-	< 2.0 K-	< 2.0 K-									<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0
1,1-Dichloroethane			2000	20000		< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	35.4	34.4	44.2	42.3	42.0	41.9	37.0	33.4
1,2-Dichloroethane			5	20000		< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000		< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethylene			20	50000		< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.45 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethylene			90	50000		< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane			3	50000		< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3-Dichloropropane						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane						< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50									<0.4	<0.40	<0.40	NT	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50									<0.4	<0.40	<0.40	NT	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl ether (Ethyl ether)						< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Di-Isopropyl ether						< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0									<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,4-Dioxane			5000	50000		< 25	< 25 J+	< 25	< 25	< 25	< 25	< 50	< 25	< 25	< 25	<130	<130	<130	<250	<250	<250	<250	<250	<250	<50	NT	NT	< 25	< 25	< 25 J+	< 25	< 25	< 25
Ethylbenzene			20000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000		< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0						<0.6	<0.60	<0.60	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			NS	NS		< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene			NS	NS		< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	21.9	< 5.0	2.9 J	6.0	< 5.0	10.3	<2.0	<2.0	<2.0	3.1	<2.0	<2.0	2.8	11	2.3	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000		< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	NT	2.4	3.1	2.2	2.5	2.2	2.3
4-Methyl-2-pentanone (MIBK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<5.0	<5.0	<5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride			2000	50000		< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			700	20000		< 5.0	< 5.0 J+	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene			NS	NS		< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene			100	6000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<1.0	<1.0	<1.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tert-amyl methyl ether			NS	NS		< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS		< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0									<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane			9	50000		< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50											<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			20	30000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.29 J	< 1.0	0.38 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.0	3.8	2.2	2.9	2.7	2.5	2.4	2.1
Tetrahydrofuran			NS	NS		< 10	< 10 J+	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	NT	< 10	< 10	< 10 J+	< 10	< 10	< 10
Toluene			50000	40000		< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS		< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene			200	50000		< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000		< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane			900	50000		< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000		< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	0.31 J	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane			NS	NS		< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0									<2.0	<2.0	<2.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane			NS	NS		< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene			NS	NS		< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene			NS	NS		< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride			2	50000		< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	2.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m,p-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW119S	MW119S	MW119S	MW119S
					Sample Name:	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW119S	MW119S	MW119S	MW119S
					Well Screen Interval (ft bgs):	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	5 to 20	5 to 20	5 to 20	5 to 20
					Sample Date:	4/14/09	7/14/09	10/15/09	4/12/10	4/20/11	4/17/12	4/24/13	5/1/14	4/3/15	4/28/16	4/17/17	4/3/18	4/16/19	4/17/20	4/13/21	4/12/22	4/17/23	4/2/24	4/22/25	11/10/25	8/22/07	10/12/07	1/15/08	4/16/08
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																											
Acetone			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 10	< 10	< 10	< 10	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0 J+	< 5.0 J+	< 5.0	< 5.0
Acrylonitrile			NS	NS		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT								NT	NT	NT	NT	NT	NT
Benzene			1000	10000		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	< 0.50 J+	< 0.50	< 0.50	< 0.50
Bromobenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
Bromochloromethane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
Bromodichloromethane			6	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0
Bromoform			700	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<2.0	<2.0	<2.0	< 1.0 J+	< 1.0	< 1.0	< 1.0
Bromomethane			7	800		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0
2-Butanone (MEK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0 J+	< 5.0 J+	< 5.0	< 5.0
n-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
sec-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
tert-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
Carbon disulfide			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			2	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0
Chloroethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0
Chloroform			50	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0
Chloromethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0 J+
2-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
4-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
Dibromochloromethane			20	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane			2	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene			8000	2000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene			60	8000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 K-	< 2.0 K-									<2.0	<2.0	<2.0	< 2.0 J+	< 2.0	< 2.0 J+	< 2.0
1,1-Dichloroethane			2000	20000		33.6	40.0	53.3 J+	37.8	35.9	28.8	26.9	28.4	31.3	31.3	26.7	22.4	5.8	23	16	1.5	15	9.6	7.3	7.4	< 1.0 J+	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane			5	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.36 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethylene			20	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.45 J	< 1.0	0.55 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethylene			90	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane			3	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 2.0 J+	< 2.0	< 2.0	< 2.0
1,3-Dichloropropane						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane						< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50								<0.4	<0.40	<0.40	< 0.50 J+	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50								<0.4	<0.40	<0.40	< 0.50 J+	< 0.50	< 0.50	< 0.50
Diethyl ether (Ethyl ether)						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
Di-Isopropyl ether						< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0
1,4-Dioxane			5000	50000		< 25 J+	< 25	< 25	< 25	< 25	< 25	< 50	< 25	< 25	< 25	<130	<130	<130	<250	<250	<250	<250	<250	<50	< 25 J+	< 25	< 25	< 25
Ethylbenzene			20000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0					<0.6	<0.60	<0.60	< 5.0 J+	< 5.0	< 5.0	< 5.0
2-Hexanone			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0 J+	< 5.0 J+	< 5.0	< 5.0
Isopropyl benzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.5	1	< 5.0 J+	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000		2.0	1.9	7.5	1.2	2.4	1.8	7.1	0.94 J	1.5	1.1	1.9	1.6	<1.0	2.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	5.2 J+	2.0	2.1	0.83 J
4-Methyl-2-pentanone (MIBK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<5.0	<5.0	<5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
Methylene chloride			2000	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0
Naphthalene			700	20000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
n-Propylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
Styrene			100	6000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<1.0	<1.0	<1.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
Tert-amyl methyl ether			NS	NS		< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane			9	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50									<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			20	30000		2.0	1.7	2.8	1.6	2.1	2.1	1.5	1.0	1.3	2.0	0.90 J	<1.0	<1.0	1.4	1.1	<1.0	1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0
Tetrahydrofuran			NS	NS		< 10 J+	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 10 J+	< 10	< 10	< 10
Toluene			50000	40000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene			200	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane			900	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000		< 1.0	0.50 J	0.80 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.26 J	0.62 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane			NS	NS		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0									<2.0	<2.0	<2.0	< 1.0 J+	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0
Vinyl chloride			2	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 K+	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0
m,p-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 1.0 J+	< 1.0	< 1.0	< 1.0
o-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0
Total Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T
					Sample Name:	MW119S 5 to 20 7/15/08 GEI	MW119S 5 to 20 10/22/08 GEI	MW119S 5 to 20 1/13/09 GEI	MW119S 5 to 20 4/13/09 GEI	MW119S 5 to 20 7/15/09 GEI	MW119S 5 to 20 10/15/09 GEI	MW119S 5 to 20 4/13/10 GEI	MW119S 5 to 20 4/22/11 GEI	MW119S 5 to 20 4/16/12 GEI	MW119S 5 to 20 4/23/13 GEI	MW119S 5 to 20 5/1/14 GEI	MW119S 5 to 20 4/2/15 GEI	MW119S 5 to 20 4/28/16 GEI	MW119S 5 to 20 4/18/17 GEI	MW119S 5 to 20 4/3/18 GEI	MW119S 5 to 20 4/16/19 GEI	MW119S 5 to 20 4/17/20 GEI	MW119S 5 to 20 4/14/21 GEI	MW119S 5 to 20 4/13/22 GEI	MW119S 5 to 20 4/17/23 GEI	MW119S 5 to 20 4/2/24 GEI	MW119S 5 to 20 4/2/24 GEI	MW119S 5 to 20 4/22/25 GEI	MW119S 5 to 20 11/11/25 GEI	MW119T 42 to 47 8/22/07 GEI	MW119T 42 to 47 10/12/07 GEI	MW119T 42 to 47 1/16/08 GEI	MW119T 42 to 47 4/16/08 GEI	MW119T 42 to 47 7/15/08 GEI	MW119T 42 to 47 10/22/08 GEI
					Well Screen Interval (ft bgs):																														
					Sample Date:																														
					Collected By:																														
Volatile Organic Compounds (VOCs)	8260	µg/l																																	
Acetone			50000	50000		< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	6.4 K-	< 10	< 10	< 10	< 10	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0
Acrylonitrile			NS	NS		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT									<5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromochloromethane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane			6	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			700	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0									<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			7	800		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0									<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Butanone (MEK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0
n-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			2	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			50	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	9.2 J+	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0
2-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0 G	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane			20	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0									<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane			2	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0									<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene			8000	2000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0									<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0									<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene			60	8000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 K-	< 2.0 K-	< 2.0 K-									<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0 J+	< 2.0 J+	< 2.0	< 2.0	< 2.0
1,1-Dichloroethane			2000	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	10.4 J+	11.0	10.9	10.4	11.0	5.3
1,2-Dichloroethane			5	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0 J+	6.4	6.0	6.2	5.8	< 1.0
cis-1,2-Dichloroethylene			20	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.54 J J+	1.2	1.1	1.2	1.1	< 1.0
trans-1,2-Dichloroethylene			90	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane			3	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3-Dichloropropane						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50									<0.4	<0.40	<0.40	<0.40	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50									<0.4	<0.40	<0.40	<0.40	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl ether (Ethyl ether)						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Di-Isopropyl ether						< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0									<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,4-Dioxane			5000	50000		< 25	< 25	< 25 J+	< 25	< 25	< 25	< 25	< 25	< 50	< 25	< 25	< 25	< 25	<130	<130	<130	<250	<250	<250	<250	<250	<250	<250	<250	<50	< 25	< 25	< 25	< 25	< 25	< 25
Ethylbenzene			20000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<0.6	<0.60	<0.60	<0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 K-	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.1 J+	0.66 J	0.64 J	0.50 J	< 1.0	< 1.0
4-Methyl-2-pentanone (MIBK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride			2000	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			700	20000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene			100	6000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<1.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tert-amyl methyl ether			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0									<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<1.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane			9	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50														<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			20	30000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	94.3 J+	105	85.0	86.3	81.2	17.5
Tetrahydrofuran			NS	NS		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 10	< 10	< 10	< 10	< 10	< 10
Toluene			50000	40000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene			200	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	0.69 J	0.52 J	2.6	< 1.0	< 1.0
1,1,2-Trichloroethane			900	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	25.9 J+	29.6	26.7	26.8	26.7	6.7
Trichlorofluoromethane			NS	NS		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0									<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	0.56 J	< 5.0	< 5.0
1,3,5-Trimethylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride			2	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m,p-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D
					Sample Name:	MW119T 42 to 47 1/13/09	MW119T 42 to 47 4/13/09	MW119T 42 to 47 7/15/09	MW119T 42 to 47 10/15/09	MW119T 42 to 47 4/13/10	MW119T 42 to 47 4/22/11	MW119T 42 to 47 4/16/12	MW119T 42 to 47 4/23/13	MW119T 42 to 47 5/1/14	MW119T 42 to 47 4/2/15	MW119T 42 to 47 4/28/16	MW119T 42 to 47 4/18/17	MW119T 42 to 47 4/3/18	MW119T 42 to 47 4/16/19	MW119T 42 to 47 4/17/20	MW119T 42 to 47 4/14/21	MW119T 42 to 47 4/13/22	MW119T 42 to 47 4/17/23	MW119T 42 to 47 4/2/24	MW119T 42 to 47 4/22/25	MW119T 42 to 47 11/13/25	MW120D 28 to 38 8/22/07	MW120D 28 to 38 10/12/07	MW120D 28 to 38 1/17/08	MW120D 28 to 38 4/16/08	MW120D 28 to 38 7/15/08	MW120D 28 to 38 10/22/08	MW120D 28 to 38 1/13/09	MW120D 28 to 38 4/14/09	MW120D 28 to 38 7/15/09
					Well Screen Interval (ft bgs):																														
					Sample Date:	1/13/09	4/13/09	7/15/09	10/15/09	4/13/10	4/22/11	4/16/12	4/23/13	5/1/14	4/2/15	4/28/16	4/18/17	4/3/18	4/16/19	4/17/20	4/14/21	4/13/22	4/17/23	4/2/24	4/22/25	11/13/25	8/22/07	10/12/07	1/17/08	4/16/08	7/15/08	10/22/08	1/13/09	4/14/09	7/15/09
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																																
Acetone			50000	50000		< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 K-	< 10	< 10	< 10	< 10	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0
Acrylonitrile			NS	NS		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT									NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromochloromethane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane			6	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			700	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			7	800		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0 K-	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Butanone (MEK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			2	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			50	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			NS	NS		< 2.0	< 2.0	< 2.0	1.4 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	12.0 J+	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane			20	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane			2	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene			8000	2000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene			60	8000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 K-	< 2.0 K-									<2.0	<2.0	<2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1-Dichloroethane			2000	20000		9.0	9.1	7.7	10.8 J+	10.2	9.4	6.4	5.9	5.6	5.9	4.4	4.9	4.0	1.8	4.3	2.7	1.1	2.6	2.2	2.2	<1.0	23.0 J+	26.0	23.2	30.8	29.5	21.8	21.4	20.9	18.4
1,2-Dichloroethane			5	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000		5.1	5.0	4.6	6.1 J+	5.4	7.0	4.4	4.2	4.1	4.5	3.4	3.7	2.4	<1.0	3.3	1.9	<1.0	2.6	<1.0	<1.0	<1.0	15.6 J+	18.9	14.3	17.8	22.0	18.4	16.7	16.9	14.1
cis-1,2-Dichloroethylene			20	50000		0.20 J	1.0	0.66 J	0.94 J J+	< 1.0	< 1.0	0.95 J	0.80 J	< 1.0	0.70 J	0.65 J	0.82 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.70 J J+	< 1.0	1.7	1.9	1.9	1.6	0.70 J	1.6	1.5
trans-1,2-Dichloroethylene			90	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane			3	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3-Dichloropropane						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane						< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50								<0.4	<0.40	<0.40	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50								<0.4	<0.40	<0.40	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl ether (Ethyl ether)						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Di-Isopropyl ether						< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,4-Dioxane			5000	50000		< 25 J+	< 25	< 25	< 25	< 25	< 25	< 25	< 50	< 25	< 25	< 25	<130	<130	<130	<250	<250	<250	<250	<250	<250	<50	< 25	< 25	< 25 J+	< 25	< 25	< 25 J+	< 25 J+	< 25
Ethylbenzene			20000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<0.6	<0.60	<0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000		0.47 J	0.37 J	0.34 J	< 1.0	< 1.0	< 1.0	< 1.0	9.1 K-	1.5	0.98 J	< 1.0	0.55 J	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	6.8 J+	3.9	3.2	4.2	3.8	6.6	2.8	2.4	2.0
4-Methyl-2-pentanone (MIBK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride			2000	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			700	20000		< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	0.68 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+
n-Propylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene			100	6000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tert-amyl methyl ether			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane			9	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50									<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			20	30000		78.8	72.2	85.8	72.5	85.4	74.6	75.1	68.5	56.4	54.5	55.7	50.6	33.0	2.6	52.0	32.0	3.1	36	5.2	3.3	1.7	93.5 J+	120	113	131	103	118	84.2	114	99.3
Tetrahydrofuran			NS	NS		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 J+	< 10
Toluene			50000	40000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene			200	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000		0.46 J	< 1.0	0.54 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0	0.25 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	10.3 J+	4.3	3.2	< 1.0	3.9	6.4	2.8	3.7	2.5
1,1,2-Trichloroethane			900	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000		24.9	23.7	26.4	23.0	27.1	23.2	21.0	21.3	16.8	20.2	18.3	17.6	12.8	2.5	17.0	10.0	1.6	10.0	3.5	3	1.3	32.6 J+	40.1	34.7	43.4	38.7	33.2	30.4	33.8	32.0
Trichlorofluoromethane			NS	NS		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0									<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride			2	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	0.38 J	0.35 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.43 J
m,p-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120S	MW120S	MW120S	MW1120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S
					Sample Name:	MW120D 28 to 38 10/15/09 GEI	MW120D 28 to 38 4/13/10 GEI	MW120D 28 to 38 4/22/11 GEI	MW120D 28 to 38 4/16/12 GEI	MW120D 28 to 38 4/23/13 GEI	MW120D 28 to 38 5/1/14 GEI	MW120D 28 to 38 4/3/15 GEI	MW120D 28 to 38 4/28/16 GEI	MW120D 28 to 38 4/18/17 GEI	MW120D 28 to 38 4/4/18 GEI	MW120D 28 to 38 4/16/19 GEI	MW120D 28 to 38 4/17/20 GEI	MW120D 28 to 38 4/14/21 GEI	MW120D 28 to 38 4/13/22 GEI	MW120D 28 to 38 4/18/23 GEI	MW120D 28 to 38 4/3/24 GEI	MW120D 28 to 38 4/3/24 GEI	MW120D 28 to 38 4/22/25 GEI	MW120D 28 to 38 11/11/25 GEI	MW120S 5 to 20 8/22/07 GEI	MW120S 5 to 20 10/12/07 GEI	MW120S 5 to 20 1/15/08 GEI	MW1120S 5 to 20 4/16/08 GEI	MW120S 5 to 20 7/15/08 GEI	MW120S 5 to 20 10/22/08 GEI	MW120S 5 to 20 1/13/09 GEI	MW120S 5 to 20 4/14/09 GEI	MW120S 5 to 20 7/15/09 GEI	MW120S 5 to 20 10/15/09 GEI	MW120S 5 to 20 4/13/10 GEI
					Well Screen Interval (ft bgs):																															
					Sample Date:																															
					Collected By:																															
Volatile Organic Compounds (VOCs)	8260	µg/l																																	
Acetone			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0 K-	< 10	< 10	< 10	< 10	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0
Acrylonitrile			NS	NS		NT	NT	NT	NT	NT	NT	NT	NT									NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromochloromethane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane			6	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			700	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			7	800		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Butanone (MEK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	0.56 J J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			2	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			50	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.9 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	0.85 J	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	10.3 J+	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane			20	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane			2	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene			8000	2000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene			60	8000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 K-	< 2.0 K-									<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1-Dichloroethane			2000	20000		31.1 J+	25.1	23.1	17.0	15.8	16.2	16.2	11.6	11.4	12.8	3.1	16.0	12.0	3.8	1.7	1.6	1.9	1.9	8.2	1.1 J+	4.3	< 1.0	< 1.0	2.5	< 1.0	< 1.0	< 1.0	0.36 J	< 1.0
1,2-Dichloroethane			5	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000		24.7 J+	19.4	23.8	15.5	14.8	16.7	16.8	8.2	9.7	14.1	1.3	14	10	1.6	1.6	1.2	1.3	1.3	8.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethylene			20	50000		1.8 J+	1.7	2.4	1.4	1.1	< 1.0	0.95 J	0.64 J	0.81 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethylene			90	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane			3	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3-Dichloropropane						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane						< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0
1,1-Dichloropropene						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50								<0.4	<0.40	<0.40	<0.40	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50								<0.4	<0.40	<0.40	<0.40	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl ether (Ethyl ether)						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Di-Isopropyl ether						< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,4-Dioxane			5000	50000		< 25	< 25	< 25	< 25	< 50	< 25	< 25	< 25	<130	<130	<130	<250	<250	<250	<250	<250	<250	<250	<250	<50	< 25	< 25	< 25	< 25	< 25	< 25	< 25 J+	< 25 J+	< 25	< 25	< 25
Ethylbenzene			20000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<0.6	<0.6	<0.6	<0.6	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000		7.5	2.2	2.2	1.4	7.1 K-	0.78 J	1.1	< 1.0	1.1	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-pentanone (MIBK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride			2000	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			700	20000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0
n-Propylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene			100	6000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<1.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tert-amyl methyl ether			NS	NS		< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0
Tert-butyl ethyl ether			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane			9	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50									<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			20	30000		95.0	95.9	75.0	78.5	72.0	66.4	52.9	40.4	35.2	49.9	7.7	59.0	36.0	6.5	5.2	4.7	5	5	31	< 1.0	< 1.0	0.97 J	< 1.0	< 1.0	0.71 J	< 1.0	< 1.0	< 1.0	< 1.0
Tetrahydrofuran			NS	NS		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 J+	< 10	< 10	< 10
Toluene			50000	40000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene			200	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000		3.3	3.5	4.3	2.0	2.6	1.7	2.1	1.1	0.45 J	1.1	<1.0	1.2	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane			900	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000		33.1	34.8	28.3	26.1	23.6	22.1	21.4	15.7	13.8	18.6	3.4	21.0	14.0	2.9	2.0	2.0	2.2	2.2	13.0	< 1.0	< 1.0	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane			NS	NS		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0									<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride			2	50000		< 1.0	< 1.0	1.6	< 1.0	< 1.0	< 1.0	0.89 J	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m,p-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D
					Sample Name:	MW120S 5 to 20 4/22/11 GEI	MW120S 5 to 20 4/16/12 GEI	MW120S 5 to 20 4/23/13 GEI	MW120S 5 to 20 5/1/14 GEI	MW120S 5 to 20 4/3/15 GEI	MW120S 5 to 20 4/28/16 GEI	MW120S 5 to 20 4/18/17 GEI	MW120S 5 to 20 4/4/18 GEI	MW120S 5 to 20 4/16/19 GEI	MW120S 5 to 20 4/17/20 GEI	MW120S 5 to 20 4/14/21 GEI	MW120S 5 to 20 4/13/22 GEI	MW120S 5 to 20 4/18/23 GEI	MW120S 5 to 20 4/2/24 GEI	MW120S 5 to 20 4/22/25 GEI	MW120S 5 to 20 11/11/25 GEI	MW121D 32.1 to 47.1 10/22/07 GEI	MW121D 32.1 to 47.1 1/15/08 GEI	MW121D 32.1 to 47.1 4/17/08 GEI	MW121D 32.1 to 47.1 7/14/08 GEI	MW901 32.1 to 47.1 7/14/08 GEI	MW121D 32.1 to 47.1 10/22/08 GEI	MW900 (FD) 32.1 to 47.1 10/22/08 GEI	MW121D 32.1 to 47.1 1/12/09 GEI	MW901 (FD) 32.1 to 47.1 1/12/09 GEI	MW121D 32.1 to 47.1 4/13/09 GEI	MW900 (FD) 32.1 to 47.1 4/13/09 GEI
					Well Screen Interval (ft bgs):																											
					Sample Date:																											
					Collected By:																											
Volatile Organic Compounds (VOCs)	8260	µg/l																														
Acetone			50000	50000		< 5.0	4.2 J K-	< 10	< 10	< 10	9.3 J	<10	<10	<10	5.3	<5.0	<5.0	<5.0	<5.0	<5.0	<10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Acrylonitrile			NS	NS		NT	NT	NT	NT	NT											NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromochloromethane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane			6	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			700	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0									<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			7	800		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0									<2.0	<2.0	<2.0 G	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0 J+	< 2.0	< 2.0	< 2.0
2-Butanone (MEK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			2	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			50	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0 J+	< 2.0	< 2.0	< 2.0
2-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane			20	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0									<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane			2	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0									<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene			8000	2000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0									<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0									<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.32 J	0.33 J	< 1.0	< 1.0
1,4-Dichlorobenzene			60	8000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0 K-	< 2.0 K-	< 2.0 K-									<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1-Dichloroethane			2000	20000		< 1.0	0.52 J	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	46.3	55.3	46.6	37.2	38.1	36.1	34.2	38.2	38.3	37.2	38.1
1,2-Dichloroethane			5	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	13.2	< 1.0	16.7	12.8	12.6	12.9 G	8.4 G	14.0	14.2	14.1	14.2
cis-1,2-Dichloroethylene			20	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.9	11.8	6.4	21.8	22.6	83.7 G	41.2 G	134	138	80.0	78.4
trans-1,2-Dichloroethylene			90	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	0.70 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0
1,2-Dichloropropane			3	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3-Dichloropropane						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50									<0.4	<0.40	<0.40	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50									<0.4	<0.40	<0.40	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl ether (Ethyl ether)						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Di-Isopropyl ether						< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0									<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,4-Dioxane			5000	50000		< 25	< 25	< 50	< 25	< 25	< 25	<130	<130	<130	<250	<250	<250	<250	<250	<250	<250	<50	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Ethylbenzene			20000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<0.6	<0.60	<0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000		< 1.0	< 1.0	< 1.0 K-	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.0	3.8	2.4	2.1	2.0	5.6	5.6	1.8	1.8	1.7	1.9
4-Methyl-2-pentanone (MIBK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride			2000	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			700	20000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene			100	6000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tert-amyl methyl ether			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0									<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000		< 5.0	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane			9	50000		< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50									<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			20	30000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	182	258	177	157	154	148 G	97.7 G	112	114	121	118
Tetrahydrofuran			NS	NS		< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene			50000	40000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.51 J	1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene			200	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	1.3	1.2	1.1	1.0	4.9	4.6	0.87 J	0.86 J	1.0	< 1.0
1,1,2-Trichloroethane			900	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	59.6	136	68.8	71.0	72.0	48.3 G	69.0 G	36.5	36.3	62.3	70.7
Trichlorofluoromethane			NS	NS		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0									<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride			2	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.32 J	0.31 J	< 1.0	< 1.0
m,p-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D
					Sample Name:	MW121D	MW900 (FD)	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D
					Well Screen Interval (ft bgs):	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1
					Sample Date:	7/14/09	7/14/09	10/14/09	4/12/10	4/20/11	4/16/12	11/12/12	4/23/13	11/18/13	4/30/14	11/18/14	4/2/15	11/19/15	4/28/16	11/21/16	4/17/17	11/8/17	4/3/18	11/15/18	4/15/19	11/22/19	4/16/20	11/18/20
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																									
Acetone			50000	50000		< 5.0 F+	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0 K-	< 5.0 K-	< 10	< 10 K-	< 10	< 10	< 10	< 10	8.7 J	< 10	< 10	< 10	< 10	< 10	< 10	<5.0	<5.0
Acrylonitrile			NS	NS		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT									
Benzene			1000	10000		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50
Bromobenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
Bromochloromethane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
Bromodichloromethane			6	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Bromoform			700	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								
Bromomethane			7	800		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 G	< 2.0 G	< 2.0 G	< 2.0 G								
2-Butanone (MEK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 K-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	<5.0	<5.0
n-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
sec-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
tert-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
Carbon disulfide			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0
Carbon tetrachloride			2	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Chlorobenzene			200	1000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Chloroethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 G	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	<2.0
Chloroform			50	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Chloromethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 G	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	<2.0
2-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
4-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
1,2-Dibromo-3-chloropropane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
Dibromochloromethane			20	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								
1,2-Dibromoethane			2	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								
Dibromomethane (Methylene bromide)			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
1,2-Dichlorobenzene			8000	2000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								
1,3-Dichlorobenzene			6000	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								
1,4-Dichlorobenzene			60	8000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Dichlorodifluoromethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 G K-	< 2.0 G K-										
1,1-Dichloroethane			2000	20000		37.6	37.9	54.8	52.9	65.8	67.7	49.9	63.4	32.1	45.0	149.0	55.7	35.9	40.2	109.0	32.0	47.6	14.8	14.0	18.8	18.0	16	12
1,2-Dichloroethane			5	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,1-Dichloroethylene			80	30000		11.0	10.4	21.8	18.0	24.1	25.5	17.6	22.3	12.7	17.6	59.7 K+	23.5	14.5	14.9	35.9	14.8	15.3	7.6	7.0	7.7	8.7	8.6	8.0
cis-1,2-Dichloroethylene			20	50000		105	106	253	279	217	178	122	193	67.2	133	316	186	73.6	108	271	79.9	119	24.8	44.3	73.5	85.4	20	26
trans-1,2-Dichloroethylene			90	50000		< 1.0	< 1.0	< 1.0	< 1.0	5.8	< 1.0	< 1.0	2.9	< 1.0	1.5	0.57 J K+	<1.0	<1.0	<1.0	1.1	0.37 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,2-Dichloropropane			3	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,3-Dichloropropane						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
2,2-Dichloropropane						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
1,1-Dichloropropene						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
cis-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50								
trans-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50								
Diethyl ether (Ethyl ether)						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
Di-Isopropyl ether						< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								
1,4-Dioxane			5000	50000		< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 50	< 50	< 25 K-	< 25 K-	<25	<25	<25	< 50	< 130	< 130	< 130	< 130	< 130	< 130	<250	<250
Ethylbenzene			20000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Hexachlorobutadiene			50	3000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		
2-Hexanone			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 K-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0
Isopropyl benzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
4-Isopropyltoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methyl tert-butyl ether			50000	50000		1.4	1.4	< 1.0	0.94 J	2.0	1.7	2.1	8.6 K-	2.7	2.3	7.1 K+	2.1	1.6	0.72 J	1.7	1.4	1.4	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0
4-Methyl-2-pentanone (MIBK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 F- K-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
Methylene chloride			2000	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Naphthalene			700	20000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0
n-Propylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
Styrene			100	6000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
Tert-amyl methyl ether			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0
Tert-butyl ethyl ether			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								
1,1,1,2-Tetrachloroethane			10	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane			9	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50									
Tetrachloroethylene (PCE)			20	30000		140	139	115	119	219	356	223	276	124	163	224	216	216	227	139	160	242	78	47.5	48.2	64.8	87	58
Tetrahydrofuran			NS	NS		< 10 F+	< 10	< 10	< 10	< 10	< 10	< 10 F- K-	< 10	< 10	< 10 G	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<2.0	<2.0
Toluene			50000	40000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,2,3-Trichlorobenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
1,2,4-Trichlorobenzene			200	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
1,1,1-Trichloroethane (TCA)			4000	20000		0.95 J	1.0	< 1.0	0.62 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.53 J	0.44 J	1.4	0.56 J	1.1	< 1.0	0.45 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,1,2-Trichloroethane			900	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Trichloroethylene (TCE)			5	5000		76.3	76.5	146.0	96.3	233.0	342	207	342	115	236	432	266	148	262	176	159	310	39.7	23.5	31.1	40.0	34	22
Trichlorofluoromethane			NS	NS		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 G K-	< 1.0 G K-										
1,2,3-Trichloropropane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
1,2,4-Trimethylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
1,3,5-Trimethylbenzene			NS	NS		< 5.0 F-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
Vinyl chloride			2	50000		0.56 J	0.52 J	< 1.0	< 1.0	7.4	15.2	8.5	10.2	3.4	9.5	38.4 G K-	15	7.5	18.2	23.3	6.6	10.4	<1.0	6.1	9	4.5	<1.0	2.0
m,p-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	<2.0
o-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Total Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S
					Sample Name:	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S
					Well Screen Interval (ft bgs):	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20
					Sample Date:	4/13/21	11/30/21	4/13/22	11/29/22	4/18/23	11/7/23	4/3/24	11/14/24	4/23/25	11/11/25	10/22/07	1/15/08	4/17/08	7/14/08	10/22/08	1/12/09	4/13/09	7/14/09	10/14/09	4/12/10	4/20/11	4/16/12	4/23/13	4/30/14	4/2/15	4/28/16	4/17/17
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																												
Acetone			50000	50000		<5.0	<5.0	<5.0	<5	<5	<5	<5.0	<5.0	<5.0	<10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 F+	< 5.0	< 5.0 J+	< 5.0	8.2 K-	< 10	< 10	< 10	< 10	<10
Acrylonitrile			NS	NS					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
Benzene			1000	10000		<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.5	<0.50
Bromobenzene			NS	NS					<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Bromochloromethane			NS	NS					<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Bromodichloromethane			6	50000		<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Bromoform			700	50000					<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Bromomethane			7	800					<2	<2	<2	<2.0	<2.0	<2.0	<2.0 K-	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
2-Butanone (MEK)			50000	50000		<5.0	<5.0	<5.0	<5	<5	<5	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<10
n-Butylbenzene			NS	NS					<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
sec-Butylbenzene			NS	NS					<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
tert-Butylbenzene			NS	NS					<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Carbon disulfide			NS	NS		<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	13.4	< 5.0	< 5.0	< 5.0	< 5.0	<2.0
Carbon tetrachloride			2	5000		<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Chlorobenzene			200	1000		<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Chloroethane			NS	NS		<2.0	<2.0	<2.0	<2	<2	<2	<2.0	3.4	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0
Chloroform			50	20000		<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Chloromethane			NS	NS		<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0
2-Chlorotoluene			NS	NS					<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
4-Chlorotoluene			NS	NS					<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
1,2-Dibromo-3-chloropropane			NS	NS					<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Dibromochloromethane			20	50000					<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dibromoethane			2	50000					<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Dibromomethane (Methylene bromide)			NS	NS					<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
1,2-Dichlorobenzene			8000	2000					<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichlorobenzene			6000	50000					<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.43 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,4-Dichlorobenzene			60	8000		<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Dichlorodifluoromethane			NS	NS					<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
1,1-Dichloroethane			2000	20000		18	18	18	38	24	25	2.1	19	8.4	4.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
1,2-Dichloroethane			5	20000		<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
1,1-Dichloroethylene			80	30000		7.5	6.3	2.3	7.3	5.5	5.7	<1.0	4.1	1.4	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
cis-1,2-Dichloroethylene			20	50000		37	18	33	11	17	16	2.8	8.4	9	3.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
trans-1,2-Dichloroethylene			90	50000		<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
1,2-Dichloropropane			3	50000		<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0
1,3-Dichloropropane									<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
2,2-Dichloropropane									<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
1,1-Dichloropropene									<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
cis-1,3-Dichloropropene			10	200					<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
trans-1,3-Dichloropropene			10	200					<0.4	<0.4	<0.4	<0.4	<0.4	<0.40	<0.40	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Diethyl ether (Ethyl ether)									<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Di-Isopropyl ether									<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
1,4-Dioxane			5000	50000		<250	<250	<250	<250	<250	<250	<250	<250	<250	<50	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 50	< 25 K-	< 25	< 25	<130
Ethylbenzene			20000	5000		<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Hexachlorobutadiene			50	3000					<0.6	<0.6	<0.6	<0.6	<0.6	<0.60	<0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0
2-Hexanone			NS	NS		<5.0	<5.0	<5.0	<5	<5	<5	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0
Isopropyl benzene			NS	NS					<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
4-Isopropyltoluene			NS	NS		<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0
Methyl tert-butyl ether			50000	50000		<2.0	<2.0	<2.0	3.3	3.3	2.1	<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 K-	< 1.0	< 1.0	< 1.0	<1.0
4-Methyl-2-pentanone (MIBK)			50000	50000					<5	<5	<5	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Methylene chloride			2000	50000		<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0
Naphthalene			700	20000		<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	5.2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0
n-Propylbenzene			NS	NS					<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Styrene			100	6000					<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Tert-amyl methyl ether			NS	NS		<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0
Tert-butyl ethyl ether			NS	NS					<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
1,1,1,2-Tetrachloroethane			10	50000		<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane			9	50000					<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	
Tetrachloroethylene (PCE)			20	30000		72	52	1.9	54	35	35	<1.0	26	1.6	2.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Tetrahydrofuran			NS	NS		<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 F+	< 10	< 10	< 10	< 10	< 10 G	< 10	< 10	<10
Toluene			50000	40000		<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	6.5	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene			NS	NS					<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
1,2,4-Trichlorobenzene			200	50000					<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
1,1,1-Trichloroethane (TCA)			4000	20000		<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
1,1,2-Trichloroethane			900	50000		<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Trichloroethylene (TCE)			5	5000		40	27	5	32.0	20.0	23	<1.0	14	4.5	4.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Trichlorofluoromethane			NS	NS					<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,3-Trichloropropane			NS	NS					<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
1,2,4-Trimethylbenzene			NS	NS					<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
1,3,5-Trimethylbenzene			NS	NS					<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Vinyl chloride			2	50000		1.5	1.0	31.0	3.0	8.6	3.2	2.0	1.7	2.8	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
m,p-Xylene			3000	5000		<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
o-Xylene			3000	5000		<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Total Xylene			3000	5000		<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122
					Sample Name:	MW121S 5 to 20 4/3/18	MW121S 5 to 20 4/15/19	MW121S 5 to 20 4/16/20	MW121S 5 to 20 4/13/21	MW121S 5 to 20 4/13/22	MW121S 5 to 20 4/13/22	MW121S 5 to 20 4/3/24	MW121S 5 to 20 4/23/25	MW121S 5 to 20 11/11/25	MW122 4 to 16 1/30/08	MW122 4 to 16 4/17/08	MW122 4 to 16 7/14/08	MW122 4 to 16 10/22/08	MW122 4 to 16 1/12/09	MW122 4 to 16 4/13/09	MW122 4 to 16 7/15/09	MW122 4 to 16 10/14/09	MW122 4 to 16 4/12/10	MW122 4 to 16 10/27/10	MW122 4 to 16 4/20/11	MW122 4 to 16 11/16/11	MW122 4 to 16 4/17/12	MW122 4 to 16 11/12/12	MW122 4 to 16 4/23/13	MW122 4 to 16 11/18/13	MW122 4 to 16 4/30/14	MW122 4 to 16 11/18/14	MW122 4 to 16 4/2/15	MW122 4 to 16 11/19/15	MW122 4 to 16 4/28/16
					Well Screen Interval (ft bgs):																														
					Sample Date:																														
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																																
Acetone			50000	50000		<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	< 5.0 J+	9.6 J	11.1	7.2	5.7	< 5.0	< 5.0 F-	< 10	3.8 J+	< 5.0	17.8	< 5.0	< 5.0	< 25 K-	< 50	< 50 K-	< 20	< 20	< 20	< 10	9.4 J
Acrylonitrile			NS	NS									NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT		
Benzene			1000	10000		<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50	<1.0	< 0.50	< 1.0	0.46 J	< 0.50	< 0.50	< 0.50	0.23 J	< 1.0	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 2.5	< 2.5	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50
Bromobenzene			NS	NS								<2.0	<2.0	<1.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10		
Bromochloromethane			NS	NS								<2.0	<2.0	<1.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10		
Bromodichloromethane			6	50000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	1.1 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0
Bromoform			700	50000								<2.0	<2.0	<1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0		
Bromomethane			7	800								<2.0	<2.0	<2.0 K-	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0 F-	< 4.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0 G	< 4.0 G		
2-Butanone (MEK)			50000	50000		<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0 J+	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25 K-	< 25	< 25	< 10	< 10	< 10	17.3 J	< 10
n-Butylbenzene			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10		
sec-Butylbenzene			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10		
tert-Butylbenzene			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10		
Carbon disulfide			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 F-	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 5.0
Carbon tetrachloride			2	5000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0
Chlorobenzene			200	1000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0
Chloroethane			NS	NS		<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 F-	< 4.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0 G	< 4.0	< 4.0	< 2.0
Chloroform			50	20000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 2.0	< 1.0	0.61 J	< 1.0	< 1.0	< 1.0	0.75 J	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0
Chloromethane			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 4.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0 F-	< 4.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0 G	< 4.0	< 4.0	< 2.0
2-Chlorotoluene			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10
4-Chlorotoluene			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10
1,2-Dibromo-3-chloropropane			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10
Dibromochloromethane			20	50000								<1.0	<1.0	<1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dibromoethane			2	50000								<2.0	<2.0	<2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Dibromomethane (Methylene bromide)			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10
1,2-Dichlorobenzene			8000	2000								<1.0	<1.0	<1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3-Dichlorobenzene			6000	50000								<1.0	<1.0	<1.0	< 1.0	< 2.0	< 1.0	< 1.0	0.60 J	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,4-Dichlorobenzene			60	8000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dichlorodifluoromethane			NS	NS								<2.0	<2.0	<2.0	< 2.0	< 4.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0 F-	< 4.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0 G K-	< 4.0 G K-		
1,1-Dichloroethane			2000	20000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	19.3	30.4 C+	10.1	15.0	16.0	25.8	21.2	20.8	29.6	20.3	19.1	15.2	17.2	14.4	11.1	12.7	15.9	12.8	15.0	6.8	18.3
1,2-Dichloroethane			5	20000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0
1,1-Dichloroethylene			80	30000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.0	9.0 C+	1.4	4.4	3.4	6.1	5.3 F-	6.6	7.3	4.6	8.3	4.1	6.4	4.7 J	4.1 J	4.4 J	5.1	3.8 K+	4.5	1.6 J	5.8
cis-1,2-Dichloroethylene			20	50000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	60.6	70.7 C+	34.0	62.5	91.5	61.9	39.4	109.0	58.6	117	45.5	66.4	61.5	84.7	56.2	67.2	68.0	69.3	43.8	75.7	61.3
trans-1,2-Dichloroethylene			90	50000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.87 J	< 2.0	< 1.0	< 1.0	< 1.0	0.93 J	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0 K+	< 2.0	< 2.0	< 1.0
1,2-Dichloropropane			3	50000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0
1,3-Dichloropropane												<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	
2,2-Dichloropropane												<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	
1,1-Dichloropropene												<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	
cis-1,3-Dichloropropene			10	200								<0.4	<0.4	<0.4	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 2.5	< 2.5	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	
trans-1,3-Dichloropropene			10	200								<0.4	<0.40	<0.40	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 2.5	< 2.5	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	
Diethyl ether (Ethyl ether)												<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	
Di-Isopropyl ether												<2.0	<2.0	<2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	
1,4-Dioxane			5000	50000		<130	<130	<250	<250	<250	<250	<250	<250	<50	< 25	< 50	< 25	< 25	< 25	< 25	< 25	< 50	< 25	< 25	< 50	< 25	< 25 K-	< 130	< 260	< 260	< 50 K-	< 50 K-	< 50	< 50	< 50
Ethylbenzene			20000	5000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0
Hexachlorobutadiene			50	3000		<2.0	<2.0					<0.6	<0.60	<0.60	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10
2-Hexanone			NS	NS		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0 J+	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25 K-	< 10	< 10	< 10	< 10	< 10
Isopropyl benzene			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	
4-Isopropyltoluene			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10
Methyl tert-butyl ether			50000	50000		<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.3	3.9 C+	1.9	5.6	2.5	3.2	3.3	2.9	2.3	2.7	2.9	2.1	2.7	2.2 J	< 5.0 K-	< 5.0	1.5 J	2.6 K+	1.8	1.0 J	1.2
4-Methyl-2-pentanone (MIBK)			50000	50000								<5.0	<5.0	<5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25 F- K-	< 25	< 25	< 10	< 10	< 10		
Methylene chloride			2000	50000		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	1.1 J	< 2.0
Naphthalene			700	20000		<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 10	2.6 J	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 5.0
n-Propylbenzene			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	
Styrene			100	6000								<1.0	<1.0	<1.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	
Tert-amyl methyl ether			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0
Tert-butyl ethyl ether			NS	NS								<2.0	<2.0	<2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	
1,1,1,2-Tetrachloroethane			10	50000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	<2.0	<2.0	< 1.0
1,1,2,2-Tetrachloroethane			9	50000								<1.0	<1.0	<1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0		
Tetrachloroethylene (PCE)			20	30000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	477	691 C+	122	352 G	312	499 G	677	518	856	532	656	581	1000	811	938	726	592	499	784	326	734
Tetrahydrofuran			NS	NS		<10	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 10	< 20	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 20	< 10	< 10	< 50 F- K-	< 50	< 50	< 20 G	< 20	< 20	< 20	< 10
Toluene			50000	40000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.48 J	< 2.0	2.8	3.7	0.64 J	2.4	1.6	< 4.0	6.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	6	< 2.0	0.79 J	0.72	< 2.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10		
1,2,4-Trichlorobenzene			200	50000								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10		
1,1,1-Trichloroethane (TCA)			4000	20000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	3.4 C+	0.63 J	5.1	1.1	1.7	1.7	< 2.0	1.5	< 1.0	7.5	1.4	2.2	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	2.0	< 2.0	0.92 J
1,1,2-Trichloroethane			900	50000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0
Trichloroethylene (TCE)			5	5000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	177	106 C+	27.0	56.9	59.6	91.7	90.2	81.1	119.0	82.1	73.1	79.0	103	88.0	93.4	76.0	98.9	58.9	82.9	44.9	98.3
Trichlorofluoromethane			NS	NS								<2.0	<2.0	<2.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 F-	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0 G K-	< 2.0 G K-		
1,2,3-Trichloropropane			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10		
1,2,4-Trimethylbenzene			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10		
1,3,5-Trimethylbenzene			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10		
Vinyl chloride			2	50000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.32 J	< 2.0	< 1.0	< 1.0	1.2	< 1.0	< 1.0 F-	4.3	< 1.0	3.6	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0 K-	1.8	1.2	0.73 J
m,p-Xylene			3000	5000		<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 1.0	< 2.0	0.92 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0
o-Xylene			3000	5000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 2.0	0.67 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0
Total Xylene			3000	5000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 2.0	1.6 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	MW122 4 to 16 11/21/16 GEI	MW122 4 to 16 4/17/2017 GEI	MW122 4 to 16 11/8/2017 GEI	MW122 4 to 16 4/3/2018 GEI	MW122 4 to 16 11/15/2018 GEI	MW122 4 to 16 4/16/2019 GEI	MW122 4 to 16 11/22/2019 GEI	MW122 4 to 16 4/16/2020 GEI	MW122 4 to 16 11/18/2020 GEI	MW122 4 to 16 4/13/2021 GEI	MW122 4 to 16 11/30/2021 GEI	MW122 4 to 16 4/13/2022 GEI	MW122 4 to 16 11/29/2022 GEI	MW122 4 to 16 4/17/2023 GEI	MW122 4 to 16 11/7/2023 GEI	MW122 4 to 16 4/4/2024 GEI	MW122 4 to 16 11/14/2024 GEI	MW122 4 to 16 4/24/2025 GEI	MW122 4 to 16 11/12/2025 GEI	MW122 4 to 16 1/7/2026 GEI	MW201 11 to 21 7/19/07 GEI	MW201 11 to 21 10/12/07 GEI	MW201 11 to 21 1/11/08 GEI	MW201 11 to 21 4/15/08 GEI	MW201 11 to 21 4/3/24 GEI	MW201 11 to 21 4/23/25 GEI	MW201 11 to 21 11/12/25 GEI
Sample Location:					MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW201	MW201	MW201	MW201	MW201	MW201	MW201
Sample Name:					MW122 4 to 16 11/21/16 GEI	MW122 4 to 16 4/17/2017 GEI	MW122 4 to 16 11/8/2017 GEI	MW122 4 to 16 4/3/2018 GEI	MW122 4 to 16 11/15/2018 GEI	MW122 4 to 16 4/16/2019 GEI	MW122 4 to 16 11/22/2019 GEI	MW122 4 to 16 4/16/2020 GEI	MW122 4 to 16 11/18/2020 GEI	MW122 4 to 16 4/13/2021 GEI	MW122 4 to 16 11/30/2021 GEI	MW122 4 to 16 4/13/2022 GEI	MW122 4 to 16 11/29/2022 GEI	MW122 4 to 16 4/17/2023 GEI	MW122 4 to 16 11/7/2023 GEI	MW122 4 to 16 4/4/2024 GEI	MW122 4 to 16 11/14/2024 GEI	MW122 4 to 16 4/24/2025 GEI	MW122 4 to 16 11/12/2025 GEI	MW122 4 to 16 1/7/2026 GEI	MW201 11 to 21 7/19/07 GEI	MW201 11 to 21 10/12/07 GEI	MW201 11 to 21 1/11/08 GEI	MW201 11 to 21 4/15/08 GEI	MW201 11 to 21 4/3/24 GEI	MW201 11 to 21 4/23/25 GEI	MW201 11 to 21 11/12/25 GEI
Well Screen Interval (ft bgs):					4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	11 to 21	11 to 21	11 to 21	11 to 21	11 to 21	11 to 21	11 to 21
Sample Date:					11/21/16	4/17/2017	11/8/2017	4/3/2018	11/15/2018	4/16/2019	11/22/2019	4/16/2020	11/18/2020	4/13/2021	11/30/2021	4/13/2022	11/29/2022	4/17/2023	11/7/2023	4/4/2024	11/14/2024	4/24/2025	11/12/2025	1/7/2026	7/19/07	10/12/07	1/11/08	4/15/08	4/3/24	4/23/25	11/12/25
Collected By:					GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																													
Acetone			50000	50000	< 40	< 50	< 10	<50	<50	<20	<50	<50	<50	<25	<100	<100	<50	<50	<5.0	<10	< 50	<50	<50	< 20	NT	< 5.0 J+	< 5.0	< 5.0	<5.0	<5.0	<5.0
Acrylonitrile			NS	NS													NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000	< 2.0	< 2.5	< 0.50	<2.5	<2.5	<1.0	<2.5	<5.0	<5.0	<2.5	<10	<10	<5	<5	<0.50	<1	< 5	<5.0	<5.0	< 2.0	NT	< 0.50	< 0.50	< 0.50	<0.5	<0.50	<0.50
Bromobenzene			NS	NS													<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0
Bromochloromethane			NS	NS													<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0
Bromodichloromethane			6	50000	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
Bromoform			700	50000													<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	NT	< 1.0	< 1.0	< 1.0	<2.0	<2.0	<2.0
Bromomethane			7	800													<20	<20	<2.0	<4.0	< 20	<20	<20	< 4.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0 G	<2.0
2-Butanone (MEK)			50000	50000	< 40	< 50	< 10	<50	<50	<20	<50	<50	<50	<50	<100	<100	<50	<50	<5.0	<10	< 50	<50	<50	< 20	NT	< 5.0 J+	< 5.0	< 5.0	<5.0	<5.0	<5.0
n-Butylbenzene			NS	NS													<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0
sec-Butylbenzene			NS	NS													<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0
tert-Butylbenzene			NS	NS													<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0
Carbon disulfide			NS	NS	< 20	< 10	< 2.0	<10	<10	<4.0	<10	<20	<20	<5	<40	<40	<20	<20	<2.0	<4.0	< 20	<20	<20	< 10	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0
Carbon tetrachloride			2	5000	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<5	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
Chlorobenzene			200	1000	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
Chloroethane			NS	NS	< 8.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<20	<20	<10	<40	<40	<20	<20	<2.0	<4.0	< 20	<20	<20	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0
Chloroform			50	20000	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<10	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 4.0	NT	0.47 J	0.40 J	0.24 J	<1.0	<1.0	<1.0
Chloromethane			NS	NS	< 8.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<20	<20	<10	<40	<40	<20	<20	<2.0	<4.0	< 20	<20	<20	< 4.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0
2-Chlorotoluene			NS	NS													<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0
4-Chlorotoluene			NS	NS													<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0
1,2-Dibromo-3-chloropropane			NS	NS													<20	<20	<2.0	<4.0	< 20	<20	<20	< 4.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0
Dibromochloromethane			20	50000													<10	<10	<1.0	<2.0	< 10	<10	<10	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane			2	50000													<20	<20	<2.0	<4.0	< 20	<20	<20	< 1.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0
Dibromomethane (Methylene bromide)			NS	NS													<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene			8000	2000													<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene			6000	50000													<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene			60	8000	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<5	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane			NS	NS													<20	<20	<2.0	<4.0	< 20	<20	<20	< 4.0	NT	< 2.0 J+	< 2.0	< 2.0	<2.0	<2.0	<2.0
1,1-Dichloroethane			2000	20000	20.5	30.9	14.8	22.7	17.0	18.8	16.4	29	48	44	46	35	24	18	16	3.1	12	<10	<10	4.5	< 1.0	0.66 J	< 1.0	0.23 J	<1.0	<1.0	<1.0
1,2-Dichloroethane			5	20000	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene			80	30000	5.6	7.7	3.9	8.1	7.3	6.1	6.9	<10	12	6.9	<20	<20	<10	<10	7.7	<2.0	< 10	<10	<10	< 2.0	4.7	4.9	5.2	3.0	1.3	<1.0	<1.0
cis-1,2-Dichloroethylene			20	50000	68.5	67.2	50	64.4	71.0	69.1	95.8	150	150	110	130	130	180	110	130	22	140	76	410	130	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethylene			90	50000	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<10	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane			3	50000	< 8.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<10	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	NT	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0
1,3-Dichloropropane																	<20	<20	<2.0	<4.0	< 20	<20	<20	< 1.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0
2,2-Dichloropropane																	<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0
1,1-Dichloropropene																	<20	<20	<2.0	<4.0	< 20	<20	<20	< 1.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0
cis-1,3-Dichloropropene			10	200													<4	<4	<0.40	<0.8	< 4.0	<4.0	<4.0	< 0.80	NT	< 0.50	< 0.50	< 0.50	<0.4	<0.40	<0.40
trans-1,3-Dichloropropene			10	200													<4	<4	<0.40	<0.8	< 4.0	<4.0	<4.0	< 0.80	NT	< 0.50	< 0.50	< 0.50	<0.4	<0.40	<0.40
Diethyl ether (Ethyl ether)																	<20	<20	<2.0	<4.0	< 20	<20	<20	< 4.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0
Di-Isopropyl ether																	<20	<20	<2.0	<4.0	< 20	<20	<20	< 1.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0
1,4-Dioxane			5000	50000	< 200	< 630	< 130	<630	<630	<250	<630	<2500	<2500	<1200	<5000	<5000	<2500	<2500	<250	<500	< 2500	<2500	<2500	< 100	NT	< 25	< 25	< 25	<250	<250	<250
Ethylbenzene			20000	5000	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	14	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
Hexachlorobutadiene			50	3000	< 20	<10											<6	<6	<0.60	<1.2	< 6.0	<6.0	<6.0	< 1.2	NT	< 5.0	< 5.0	< 5.0	<0.6	<0.60	<0.60
2-Hexanone			NS	NS	< 40	< 25	< 5.0	<25	<25	<2.0	<25	<50	<50	<25	<100	<100	<50	<50	<5.0	<10	< 50	<50	<50	< 20	NT	< 5.0 J+	< 5.0	< 5.0	<5.0	<5.0	<5.0
Isopropyl benzene			NS	NS													<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0
4-Isopropyltoluene			NS	NS	< 20	< 10	< 2.0	<10	<10	<4.0	<10	<20	<20	<20	<40	<40	<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0
Methyl tert-butyl ether			50000	50000	< 4.0	3.7	1.1	<5.0	<5.0	2.1	<5.0	<20	<20	<10	<40	<40	<20	<20	2.9	<4.0	< 20	<20	<20	2.5	NT	75.8	240	0.26 J	<2.0	<2.0	<2.0
4-Methyl-2-pentanone (MIBK)			50000	50000													<50	<50	<5.0	<10	< 50	<50	<50	< 20	NT	< 5.0	< 5.0	< 5.0	<5	<5.0	<5.0
Methylene chloride			2000	50000	39.4	< 10	< 2.0	<10	<10	<4.0	<10	<20	<20	<20	<40	<40	<20	<20	<2.0	<4.0	< 20	<20	<20	< 4.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0
Naphthalene			700	20000	< 20	< 25	< 5.0	<25	<25	<10	<25	<20	<20	<10	<40	<40	<20	<20	<2.0	<4.0	< 20	<20	<20	< 4.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0
n-Propylbenzene			NS	NS													<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0
Styrene			100	6000													<10	<10	<1.0	<2.0	< 10	<10	5200	370	NT	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0
Tert-amyl methyl ether			NS	NS	< 8.0	< 10	< 2.0	<10	<10	<4.0	<10	<20	<20	<10	<40	<40	<20	<20	<2.0	<4.0	< 20	<20	<20	< 1.0	NT	4.6	17.7	< 2.0	<2.0	<2.0	<2.0
Tert-butyl ethyl ether			NS	NS													<20	<20	<2.0	<4.0	< 20	<20	<20	< 1.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0
1,1,1,2-Tetrachloroethane			10	50000	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<10	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	NT	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane			9	50000													<10	<10	<1.0	<2.0	< 10	<10	<10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
Tetrachloroethylene (PCE)			20	30000	684	910	579	959	1150	1060	961	1200	1400	820	1600	1700	1200	1700	1600	170	1300	840	210	42	5.1	19.6	25.8	18.0	4.8	9 K+	13
Tetrahydrofuran			NS	NS	< 40	< 50	< 10	<50	<50	<2.0	<50	<20	<20	<10	<40	<40	<20	<20	<2.0	<4.0	< 20	<20	<20	< 4.0	NT	< 10	< 10	< 10	<2.0	<2.0	<2.0
Toluene			50000	40000	< 4.0	< 5.0	20.7	<5.0	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 4.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene			NS	NS													<20	<20	<2.0	<4.0	< 20	<20	<20	< 4.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0
1,2,4-Trichlorobenzene			200	50000													<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0
1,1,1-Trichloroethane (TCA)			4000	20000	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	9.8	36.3	32.9	7.3	3.9	2.7	1.9
1,1,2-Trichloroethane			900	50000	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<10	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
Trichloroethylene (TCE)			5	5000	87.1	102.0	63.3	110.0	122	121	131	140	170	130	220	210	160	170	200	41	150	100	<50	8.7	4.5	7.2	8.2	6.4	2.1	2.5	3.2
Trichlorofluoromethane			NS	NS													<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	NT	< 1.0	< 1.0	< 1.0	<2.0	<2.0	<2.0
1,2,3-Trichloropropane			NS	NS													<20	<20	<2.0	<4.0	< 20	<20	<20	< 4.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0
1,2,4-Trimethylbenzene			NS	NS													<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0
1,3,5-Trimethylbenzene			NS	NS													<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0
Vinyl chloride			2	50000	< 4.0	< 5.0	1.3	<5.0	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20	<10	<10	1.6	<2.0	< 10	<10	<10	22	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
m,p-Xylene			3000	5000	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<20	<20	<10	<40	<40	<20	<20	<2.0	<4.0	< 20	<20	<20	< 4.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<2.0	<2.0
o-Xylene			3000	5000	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0
Total Xylene			3000	5000	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202
					Sample Name:	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202
					Well Screen Interval (ft bgs):	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5
					Sample Date:	7/19/07	10/12/07	1/11/08	4/15/08	7/15/08	10/21/08	1/13/09	4/15/09	7/14/09	10/14/09	4/12/10	4/22/11	4/17/12	4/23/13	5/1/14	4/2/15	4/29/16	4/17/17	4/4/18	4/16/19	4/17/20	4/14/21	4/13/22	4/18/23
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																											
Acetone			50000	50000	NT	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 10	< 10	< 10	9.7	<10	<10	<10	<5.0	<5.0	<5.0	<5.0
Acrylonitrile			NS	NS	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT								
Benzene			1000	10000	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J+	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
Bromochloromethane			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
Bromodichloromethane			6	50000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform			700	50000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								
Bromomethane			7	800	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 G								
2-Butanone (MEK)			50000	50000	NT	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0
n-Butylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
sec-Butylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
tert-Butylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
Carbon disulfide			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride			2	5000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene			200	1000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane			NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0
Chloroform			50	20000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.89 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane			NS	NS	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0
2-Chlorotoluene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
4-Chlorotoluene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
1,2-Dibromo-3-chloropropane			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
Dibromochloromethane			20	50000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								
1,2-Dibromoethane			2	50000	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								
Dibromomethane (Methylene bromide)			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
1,2-Dichlorobenzene			8000	2000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								
1,3-Dichlorobenzene			6000	50000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								
1,4-Dichlorobenzene			60	8000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane			NS	NS	NT	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 K-	< 2.0 K-	< 2.0 K-								
1,1-Dichloroethane			2000	20000	0.50 J	< 1.0	< 1.0	0.46 J	< 1.0	< 1.0	< 1.0	0.34 J	< 1.0	< 1.0	3.1	5.0	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane			5	20000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene			80	30000	1.1	< 1.0	< 1.0	2.9	2.8	1.6	1.9	3.2	< 1.0	< 1.0	15.5	< 1.0	2.4	0.93 J	0.92 J	< 1.0	0.46 J	1.1	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethylene			20	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethylene			90	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane			3	50000	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane					NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
2,2-Dichloropropane					NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
1,1-Dichloropropene					NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
cis-1,3-Dichloropropene			10	200	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50								
trans-1,3-Dichloropropene			10	200	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50								
Diethyl ether (Ethyl ether)					NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
Di-Isopropyl ether					NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								
1,4-Dioxane			5000	50000	NT	< 25	< 25	< 25	< 25	< 25	< 25	< 25 J+	< 25 J+	< 25	< 25	< 25	< 25	< 25 K-	< 50	< 50	<25	<25	<130	<130	<130	<250	<250	<250	<250
Ethylbenzene			20000	5000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachlorobutadiene			50	3000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
2-Hexanone			NS	NS	NT	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isopropyl benzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
4-Isopropyltoluene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	11.3	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methyl tert-butyl ether			50000	50000	NT	< 1.0	< 1.0	1.2	< 1.0	< 1.0	0.92 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 K-	< 1.0	< 1.0	< 1.0	<1.0	<1.0	1.0	<2.0	<2.0	<2.0	<2.0
4-Methyl-2-pentanone (MIBK)			50000	50000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
Methylene chloride			2000	50000	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Naphthalene			700	20000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0
n-Propylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
Styrene			100	6000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
Tert-amyl methyl ether			NS	NS	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Tert-butyl ethyl ether			NS	NS	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								
1,1,1,2-Tetrachloroethane			10	50000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane			9	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50									
Tetrachloroethylene (PCE)			20	30000	17.2	14.6	21.8	55.6	48.5	39.4	37.5	53.5	52.6	61.8	84.9	86.5	20.6	37.0	31.4	28.1	40.8 K+	20.0	39.4	68.9	20.0	14.0	5.4	12.0
Tetrahydrofuran			NS	NS	NT	< 10	< 10	< 10	< 10	< 10	< 10	< 10 J+	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	<10	<2.0	<2.0	<2.0	<2.0
Toluene			50000	40000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									
1,2,4-Trichlorobenzene			200	50000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									
1,1,1-Trichloroethane (TCA)			4000	20000	12.5	4.4	4.2	35.2	18.9	7.1	8.0	15.7	6.6	14.3 J+	16.8	18.6	2.8	5.2	6.9	7.4	7.1	3.5	8.1	9.8	2.7	1.7	<1.0	1.2
1,1,2-Trichloroethane			900	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethylene (TCE)			5	5000	2.2	1.5	1.6	6.9	8.6	5.3	5.6	11.8 J+	7.2	9.8	12.9	8.2	1.5	2.5	1.5	1.4	1.5	0.81 J	1.5	2.2	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane			NS	NS	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0									
1,2,3-Trichloropropane			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									
1,2,4-Trimethylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									
1,3,5-Trimethylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									
Vinyl chloride			2	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m,p-Xylene			3000	5000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0
o-Xylene			3000	5000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Xylene			3000	5000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW202	MW202	MW202	MW203	MW203	MW203R	MW203R	MW203R	MW-3	MW-3	MW-3	MW-3	MW3	MW3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-301	MW-301	MW-301	MW401D	MW401S	MW402	MW403	MW404	MW404
					Sample Name:	MW202	MW202	MW202	MW203	MW203	MW203R	MW203R	MW203R	MW-3	MW-3	MW-3	MW-3	MW3	MW3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-301	MW-301	MW-301	MW-401D	MW401S	MW402	MW403	MW404	MW902
					Well Screen Interval (ft bgs):	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	6 to 18	6 to 18	13 to 23	13 to 23	13 to 23	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	5-15	5-15	5-15	34-44	4 to 16	20-30	80-90	72.4-82.5	72.5-82.5
					Sample Date:	4/3/24	4/23/25	11/12/25	7/19/07	4/15/08	4/4/24	4/24/25	11/10/25	7/1/02	8/9/04	5/23/06	1/17/07	4/17/07	4/15/08	7/15/08	10/21/08	1/14/09	4/14/09	7/15/09	10/16/09	1/20/25	4/23/25	11/11/25	11/13/25	11/13/2025	11/11/25	11/11/25	11/12/25	11/12/25
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	SHA	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																															
Acetone			50000	50000		<5.0	<5.0	<10	NT	< 250	<250	<250	<250	< 2500	< 2000	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<10	<1000	<50	<10	<10	< 4000	< 4000
Acrylonitrile			NS	NS			NT	NT	NT	NT		NT	NT	< 2500	< 100	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 200	< 200
Benzene			1000	10000		<0.5	<0.50	<0.50	NT	< 25	<25	<25	<25	< 250	< 100	0.37 J	0.71	< 13	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.5	<0.5	<100	<5.0	<0.5	<0.5	< 200	< 200
Bromobenzene			NS	NS		<2.0	<2.0	<2.0	NT	< 250	<100	<100	<100	< 1200	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	< 200	< 200
Bromochloromethane			NS	NS		<2.0	<2.0	<2.0	NT	< 250	<100	<100	<100	< 1200	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	< 200	< 200
Bromodichloromethane			6	50000		<1.0	<1.0	<1.0	NT	< 50	<5.00	<50	<50	< 250	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	< 200	< 200
Bromoform			700	50000		<2.0	<2.0	<2.0	NT	< 50	<100	<100	<100	< 250	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	< 200	< 200
Bromomethane			7	800		<2.0	<2.0	<2.0	NT	< 100	<100	<100 K-	<100	< 5.0	< 200	< 2.0	< 2.0	< 50	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0 G	<2.0 G	<200 K-	<20 K-	<2.0 G	<2.0 G	< 400	< 400
2-Butanone (MEK)			50000	50000		<5.0	<5.0	<5.0	NT	< 250	<250	<250 K-	<250	< 2500	< 1000	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<1000	<50	<5.0	<5.0	< 2000	< 2000
n-Butylbenzene			NS	NS		<2.0	<2.0	<2.0	NT	< 250	<100	<100	<100	< 250	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	< 200	< 200
sec-Butylbenzene			NS	NS		<2.0	<2.0	<2.0	NT	< 250	<100	<100	<100	< 250	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	< 200	< 200
tert-Butylbenzene			NS	NS		<2.0	<2.0	<2.0	NT	< 250	<100	<100	<100	< 1200	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	< 200	< 200
Carbon disulfide			NS	NS		<2.0	<2.0	<2.0	NT	< 250	<100	<100	<100	< 2500	< 5.0	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<500	<20	<2.0	<2.0	< 1000	< 1000
Carbon tetrachloride			2	5000		<1.0	<1.0	<1.0	< 1.0	< 50	<5.00	<50	<50	< 250	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	< 200	< 200
Chlorobenzene			200	1000		<1.0	<1.0	<1.0	NT	< 50	<5.00	<50	<50	< 250	< 100	< 1.0	0.52 J	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	< 200	< 200
Chloroethane			NS	NS		<2.0	<2.0	<2.0	< 2.0	< 100	<100	<100	<100	< 5.0	< 200	< 2.0	< 2.0	< 50	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<200	<20	<2.0	<2.0	< 400	< 400
Chloroform			50	20000		<1.0	<1.0	<1.0	NT	< 50	<5.00	<50	<50	< 380	< 100	2.1	3.4	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<200	<10	<1.0	<1.0	< 200	< 200
Chloromethane			NS	NS		<2.0	<2.0	<2.0	NT	< 100	<100	<100 K-	<100	< 1200	< 200	< 2.0	< 2.0	< 50	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<200	<20	<2.0	<2.0	< 400	< 400
2-Chlorotoluene			NS	NS		<2.0	<2.0	<2.0	NT	< 250	<100	<100	<100	< 1200	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<200	<20	<2.0	<2.0	< 200	< 200
4-Chlorotoluene			NS	NS		<2.0	<2.0	<2.0	NT	< 250	<100	<100	<100	< 1200	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<200	<20	<2.0	<2.0	< 200	< 200
1,2-Dibromo-3-chloropropane			NS	NS		<2.0	<2.0	<2.0	NT	< 250	<100	<100	<100	< 1200	< 200	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0 G	<200 G	<20 G	<2.0 G	<2.0	< 400	< 400
Dibromochloromethane			20	50000		<1.0	<1.0	<1.0	NT	< 50	<5.00	<50	<50	< 250	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	< 200	< 200
1,2-Dibromoethane			2	50000		<2.0	<2.0	<2.0	NT	< 100	<100	<100	<100	< 1200	< 100	< 2.0	< 2.0	< 50	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<50	<20	<2.0	<2.0	< 200	< 200
Dibromomethane (Methylene bromide)			NS	NS		<2.0	<2.0	<2.0	NT	< 250	<100	<100	<100	< 2500	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	< 200	< 200
1,2-Dichlorobenzene			8000	2000		<1.0	<1.0	<1.0	NT	< 50	<5.00	<50	<50	< 1200	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	< 200	< 200
1,3-Dichlorobenzene			6000	50000		<1.0	<1.0	<1.0	NT	< 50	<5.00	<50	<50	< 1200	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	< 200	< 200
1,4-Dichlorobenzene			60	8000		<1.0	<1.0	<1.0	NT	< 50	<5.00	<50	<50	< 1200	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	< 200	< 200
Dichlorodifluoromethane			NS	NS		<2.0	<2.0	<2.0	NT	< 100	<100	<100	<100	< 2500	< 200	< 2.0	< 2.0	< 50	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<200	<20	<2.0	<2.0	< 400	< 400
1,1-Dichloroethane			2000	20000		<1.0	<1.0	<1.0	22.2	13.0 J	<5.00	<50	<50	< 380	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	500	7.8	5.6	48	< 200	< 200
1,2-Dichloroethane			5	20000		<1.0	<1.0	<1.0	< 1.0	< 50	<5.00	<50	<50	< 250	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	< 200	< 200
1,1-Dichloroethylene			80	30000		<1.0	<1.0	<1.0	76.4	36.6 J	<5.00	<50	<50	< 250	< 100	6.9	5.6	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<100	<10	3.2	<10	< 200	< 200
cis-1,2-Dichloroethylene			20	50000		<1.0	<1.0	<1.0	102	78.9	<5.00	<50	<50	< 250	< 100	< 1.0	1.9	< 25	< 1.0	0.56 J	< 1.0	< 1.0	0.43 J	2.3 J+	< 1.0	<1.0	<1.0	<1.0	400	14	< 1.0	13	< 200	< 200
trans-1,2-Dichloroethylene			90	50000		<1.0	<1.0	<1.0	1.2	< 50	<5.00	<50	<50	< 380	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	< 200	< 200
1,2-Dichloropropane			3	50000		<1.0	<1.0	<1.0	NT	< 100	<5.00	<50	<50	< 880	< 100	< 2.0	< 2.0	< 50	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	< 200	< 200
1,3-Dichloropropane						<2.0	<2.0	<2.0	NT	< 250	<100	<100	<100	< 1200	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<50	<20	<2.0	<2.0	< 200	< 200
2,2-Dichloropropane						<2.0	<2.0	<2.0	NT	< 250	<100	<100	<100	< 1200	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	< 200	< 200
1,1-Dichloropropene						<2.0	<2.0	<2.0	NT	< 250	<100	<100	<100	< 1200	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<50	<20	<2.0	<2.0	< 200	< 200
cis-1,3-Dichloropropene			10	200		<0.4	<0.40	<0.40	NT	< 25	<20	<20	<20	< 250	< 100	< 0.50	< 0.50	< 13	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.40	<0.40	<0.40	<40	<4.0	<0.40	<0.40	< 200	< 200
trans-1,3-Dichloropropene			10	200		<0.4	<0.40	<0.40	NT	< 25	<20	<20	<20	< 250	< 100	< 0.50	< 0.50	< 13	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.40	<0.40	<0.40	<40	<4.0	<0.40	<0.40	< 200	< 200
Diethyl ether (Ethyl ether)						<2.0	<2.0	<2.0	NT	< 250	<100	<100	<100	< 1200	NT	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<200	<20	<2.0	<2.0	<200	<200
Di-Isopropyl ether						<2.0	<2.0	<2.0	NT	< 100	<100	<100	<100	NT	NT	< 2.0	< 2.0	< 50	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<50	<20	<2.0	<2.0	<200	<200
1,4-Dioxane			5000	50000		<250	<250	<50	NT	< 1300	<12000	<12000	<12000	NT	NT	< 25	< 25	< 630	< 25	< 25	< 25	< 25	< 25	< 25	< 25	<250	<50	<50	<5000 K-	<2500 K-	<50	<50	<200	<200
Ethylbenzene			20000	5000		<1.0	<1.0	<1.0	NT	< 50	<50	<50	<50	< 250	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	< 200	< 200
Hexachlorobutadiene			50	3000		<0.6	<0.60	<0.60	NT	< 250	<30	<30	<30	< 1200	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<0.60	<0.60	<0.60	<60	<6.0	<0.60	<0.60	< 200	< 200
2-Hexanone			NS	NS		<5.0	<5.0	<5.0	NT	< 250	<250	<250 K-	<250	< 2500	< 1000	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<1000	<50	<5.0	<5.0	< 2000	< 2000
Isopropyl benzene			NS	NS		<2.0	<2.0	<2.0	NT	< 250	<100	<100	<100	< 250	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	< 200	< 200
4-Isopropyltoluene			NS	NS		<2.0	<2.0	<2.0	NT	< 250	<100	<100	<100	< 250	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	< 200	< 200
Methyl tert-butyl ether			50000	50000		<2.0	<2.0	<2.0	NT	< 50	<100	<100	<100	< 5.0	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	< 200	< 200
4-Methyl-2-pentanone (MIBK)			50000	50000		<5	<5.0	<5.0	NT	< 250	<250	<250	<250	< 2500	< 1000	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<1000	<50	<5.0	<5.0	< 2000	< 2000
Methylene chloride			2000	50000		<2.0	<2.0	<2.0	NT	< 100	<100	<100	<100	< 2500	< 1000	< 2.0	< 2.0	71.5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<500	<20	<2.0	<2.0	< 2000	< 2000
Naphthalene			700	20000		<2.0	<2.0	<2.0	NT	< 250	<100	<100	<100	< 1200	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	<2.0	<2.0	<2.0	<200	<20	<2.0	<2.0	< 200	< 200
n-Propylbenzene			NS	NS		<2.0	<2.0	<2.0	NT	< 250	<100	<100	<100	< 250	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	< 200	< 200
Styrene			100	6000		<1.0	<1.0	<1.0	NT	< 250	<50	<50	<50	< 250	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	< 200	< 200
Tert-amyl methyl ether			NS	NS		<2.0	<2.0	<2.0	NT	< 100	<100	<100	<100	NT	NT	< 2.0	< 2.0	< 50	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0	<2.0	<2.0	<2.0	<50	<20	<2.0	<2.0	<200	<200
Tert-butyl ethyl ether			NS	NS		<2.0	<2.0	<2.0	NT	< 100	<100	<100	<100	NT	NT	< 2.0	< 2.0	< 50	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<50	<20	<2.0	<2.0	<200	<200
1,1,1,2-Tetrachloroethane			10	50000		<1.0	<1.0	<1.0	NT	< 250	<50	<50	<50	< 250	< 100	1.9 J	4.4 J	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	< 200	< 200
1,1,2,2-Tetrachloroethane			9	50000		<1.0	<1.0	<1.0	< 1.0	< 50	<50	<50	<50	< 250	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<50	<10	<1.0	<1.0	< 200	< 200
Tetrachloroethylene (PCE)			20	30000		9.4	13	24	15500	11500	7500	5700	5000	16000	16200	22100	51900	6550	400	427	606	176	141	280	391	<1.0	<1.0	<1.0	12000 K+	440 K+	290	710	44000	45000
Tetrahydrofuran			NS	NS		<2.0	<2.0	<2.0	NT	< 50	<100	<100 K-	<100	NT	NT	< 10	< 10	< 250	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<2.0	2	<2.0	<200	<20	<2.0	<2.0	<200	<200
Toluene			50000	40000		<1.0	<1.0	<1.0	NT	< 50	<50	<50	<50	< 380	< 100	0.62 J	< 1.0	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	< 200	< 200
1,2,3-Trichlorobenzene			NS	NS		<2.0	<2.0	<2.0	NT	< 250	<100	<100	<100	< 1200	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<200	<20	<2.0	<2.0	< 200	< 200
1,2,4-Trichlorobenzene			200	50000		<2.0	<2.0	<2.0	NT	< 250	<100	<100	<100	< 1200	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	< 200	< 200
1,1,1-Trichloroethane (TCA)			4000	20000		1.4	1.5	3.8	1710	988	<50	<50	<50	< 250	< 100	39.1	68.7	11.1 J	< 1.0	0.43 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	<200	<200
1,1,2-Trichloroethane			900	50000		<1.0	<1.0	<1.0	0.66 J	< 50	<50	<50	<50	< 380	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	< 200	< 200
Trichloroethylene (TCE)			5	5000		<1.0	<1.0	<1.0	979	618	120	110	120	< 250	< 100	86.6	247	13.8 J	1.9	3.5	4.2	1.3	1.3	2.7	3.6	<1.0	<1.0	<1.0	2600	66	36	120	2600	2700
Trichlorofluoromethane			NS	NS		<2.0	<2.0	<2.0	NT	< 50	<100	<100	<100	< 1200	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	<200	<20	<2.0	<2.0	< 200	< 200
1,2,3-Trichloropropane			NS	NS		<2.0	<2.0	<2.0	NT	< 250	<100	<100	<100	< 2500	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<200	<20	<2.0	<2.0	< 200	< 200
1,2,4-Trimethylbenzene			NS	NS		<2.0	<2.0	<2.0	NT	< 250	<100	<100	<100	< 1200	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	< 200	< 200
1,3,5-Trimethylbenzene			NS	NS		<2.0	<2.0	<2.0	NT	< 250	<100	<100	<100	< 1200	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	< 200	< 200
Vinyl chloride			2	50000		<1.0	<1.0	<1.0	< 1.0	< 50	<50	<50	<50	< 5.0	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<200	<10	<1.0	<1.0	< 200	< 200
m,p-Xylene			3000	5000		<2.0	<2.0	<2.0	NT	< 50	<100	<100	<100	< 250	< 200	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	<200	<20	<2.0	<2.0	< 400	< 400
o-Xylene			3000	5000		<1.0	<1.0	<1.0	NT	< 50	<50	<50	<50	< 250	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	< 200	< 200
Total Xylene			3000	5000		<1.0	<1.0	<1.0	NT	< 50	<50	<50	<50	ND	ND	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<200	<10	<1.0	<1.0	<200	<200

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW405	MW406	MW407	MW-CS1	SH-1	SH-3	SH-4	SH-MW1	SH-MW-1	SH-MW-1	SH-MW1	SHMW1	SH-MW2	SH-MW2	SH-MW-2	SH-MW-2	SH-MW2	SHMW2	SH-MW2	SH-MW2	SH-MW2	SH-MW2	SH-MW2R	SH-MW2R	SH-MW2R	SH-MW3	SH-MW-3	SH-MW-3	SH-MW3
					Sample Name:	MW405 8-18	MW406 4-14	MW-407 4.45-14.45	MW-CS1 Unknown	SH-1 9 to 14	SH-3 8 to 13	SH-4 11 to 16	SH-MW1 10 to 30	SH-MW-1 10 to 30	SH-MW-1 10 to 30	SH-MW1 10 to 30	SHMW1 10 to 30	SH-MW2 10 to 25	SH-MW2 10 to 25	SH-MW-2 10 to 25	SH-MW-2 10 to 25	SH-MW2 10 to 25	SHMW2 10 to 25	SH-MW2 10 to 25	SH-MW2 10 to 25	SH-MW2 10 to 25	SH-MW2 10 to 25	SH-MW2R 10 to 23	SH-MW2R 10 to 23	SH-MW2R 10 to 23	SH-MW3 10 to 24	SH-MW-3 10 to 24	SH-MW-3 10 to 24	SH-MW3 10 to 24
					Well Screen Interval (ft bgs):																													
					Sample Date:	11/10/25	11/10/25	1/7/26	5/23/07	8/9/04	8/9/04	5/25/06	7/8/02	5/23/06	10/4/06	1/16/07	4/12/07	7/8/02	8/16/04	5/23/06	10/4/06	1/16/07	4/16/07	7/19/07	4/28/17	4/4/18	4/16/19	4/3/24	4/24/25	11/12/25	7/8/02	5/24/06	10/4/06	1/17/07
					Collected By:	GEI	GEI	GEI	GEI	GeoInsight	GeoInsight	GEI	SHA	GEI	GEI	GEI	GEI	SHA	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	SHA	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																															
Acetone			50000	50000		<10	14	12	< 5.0	< 4000	< 2000	30.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 2000	< 5.0	< 5.0	< 5.0	< 10	NT	<10	<10	<10	<100	<200	<200	< 2500	< 5.0	< 5.0	< 500
Acrylonitrile			NS	NS		NT	NT	NT	NT	< 200	< 100	NT	< 2500	NT	NT	NT	NT	< 250	< 100	NT	NT	NT	NT	NT					NT	NT	< 2500	NT	NT	NT
Benzene			1000	10000		<0.5	<0.5	1.1	< 0.50	< 200	< 100	< 0.50	< 250	< 0.50	0.61	< 0.50	0.33 J	< 25	< 100	< 0.50	< 0.50	< 0.50	< 1.0	NT	<0.50	<0.50	<0.50	<10	<20	<20	< 250	< 0.50	< 0.50	< 50
Bromobenzene			NS	NS		<2.0	<2.0	< 1.0	< 5.0	< 200	< 100	< 5.0	< 1200	< 5.0	< 5.0	< 5.0	< 5.0	< 120	< 100	< 5.0	< 5.0	< 5.0	< 10	NT				<40	<80	<80	< 1200	< 5.0	< 5.0	< 500
Bromochloromethane			NS	NS		<2.0	<2.0	< 1.0	< 5.0	< 200	< 100	< 5.0	< 1200	< 5.0	< 5.0	< 5.0	< 5.0	< 120	< 100	< 5.0	< 5.0	< 5.0	< 10	NT				<40	<80	<80	< 1200	< 5.0	< 5.0	< 500
Bromodichloromethane			6	50000		<1.0	<1.0	< 1.0	< 1.0	< 200	< 100	< 1.0	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	<1.0	<1.0	<1.0	<20	<40	<40	< 250	< 1.0	< 1.0	< 100
Bromoform			700	50000		<2.0	<2.0	< 1.0	< 1.0	< 200	< 100	< 1.0	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT				<40	<80	<80	< 250	< 1.0	< 1.0	< 100
Bromomethane			7	800		<2.0 G	<2.0 G	< 2.0	< 2.0	< 400	< 200	< 2.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	< 200	< 2.0	< 2.0	< 2.0	< 4.0	NT				<40	<80 K-	<80	< 5.0	< 2.0	< 2.0	< 200
2-Butanone (MEK)			50000	50000		<5.0	<5.0	< 10	< 5.0	< 2000	< 1000	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 1000	< 5.0	< 5.0	< 5.0	< 10	NT	<10	<10	<10	<100	<200 K-	<200	< 2500	< 5.0	< 5.0	< 500
n-Butylbenzene			NS	NS		<2.0	<2.0	< 1.0	< 5.0	< 200	< 100	< 5.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 100	< 5.0	< 5.0	< 5.0	< 10	NT				<40	<80	<80	< 250	< 5.0	< 5.0	< 500
sec-Butylbenzene			NS	NS		<2.0	<2.0	< 1.0	< 5.0	< 200	< 100	< 5.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 100	< 5.0	< 5.0	< 5.0	< 10	NT				<40	<80	<80	< 250	< 5.0	< 5.0	< 500
tert-Butylbenzene			NS	NS		<2.0	<2.0	< 1.0	< 5.0	< 200	< 100	< 5.0	< 1200	< 5.0	< 5.0	< 5.0	< 5.0	< 120	< 100	< 5.0	< 5.0	< 5.0	< 10	NT				<40	<80	<80	< 1200	< 5.0	< 5.0	< 500
Carbon disulfide			NS	NS		<2.0	<2.0	< 5.0	0.54 J	< 1000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	< 10	NT	<2.0	<2.0	<2.0	<40	<80	<80	< 2500	< 5.0	< 5.0	< 500
Carbon tetrachloride			2	5000		<1.0	<1.0	< 1.0	< 1.0	< 200	< 100	< 1.0	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	<20	<40	<40	< 250	< 1.0	< 1.0	< 100
Chlorobenzene			200	1000		<1.0	<1.0	< 1.0	< 1.0	< 200	< 100	< 1.0	< 250	< 1.0	0.52 J	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	<1.0	<1.0	<1.0	<20	<40	<40	< 250	< 1.0	< 1.0	< 100
Chloroethane			NS	NS		<2.0	<2.0	< 2.0	< 2.0	< 400	< 200	< 2.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	< 200	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	<1.0	<1.0	<1.0	<40	<80	<80	< 5.0	< 2.0	< 2.0	< 200
Chloroform			50	20000		<1.0	<1.0	< 2.0	< 1.0	< 200	< 100	13.3	< 380	2.1	4.6	1.7	3.4	< 38	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	<1.0	<1.0	<1.0	<20	<40	<40	< 380	0.88 J	0.81 J	< 100
Chloromethane			NS	NS		<2.0	<2.0	< 2.0	< 2.0	< 400	< 200	< 2.0	< 1200	< 2.0	< 2.0	< 2.0	< 2.0	< 120	< 200	< 2.0	< 2.0	< 2.0	< 4.0	NT	<1.0	<1.0	<1.0	<40	<80 K-	<80	< 1200	< 2.0	< 2.0	< 200
2-Chlorotoluene			NS	NS		<2.0	<2.0	< 1.0	< 5.0	< 200	< 100	< 5.0	< 1200	< 5.0	< 5.0	< 5.0	< 5.0	< 120	< 100	< 5.0	< 5.0	< 5.0	< 10	NT				<40	<80	<80	< 1200	< 5.0	< 5.0	< 500
4-Chlorotoluene			NS	NS		<2.0	<2.0	< 1.0	< 5.0	< 200	< 100	< 5.0	< 1200	< 5.0	< 5.0	< 5.0	< 5.0	< 120	< 100	< 5.0	< 5.0	< 5.0	< 10	NT				<40	<80	<80	< 1200	< 5.0	< 5.0	< 500
1,2-Dibromo-3-chloropropane			NS	NS		<2.0	<2.0	< 2.0	< 5.0	< 400	< 200	< 5.0	< 1200	< 5.0	< 5.0	< 5.0	< 5.0	< 120	< 200	< 5.0	< 5.0	< 5.0	< 10	NT				<40	<80	<80	< 1200	< 5.0	< 5.0	< 500
Dibromochloromethane			20	50000		<1.0	<1.0	< 0.50	< 1.0	< 200	< 100	< 1.0	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT				<20	<40	<40	< 250	< 1.0	< 1.0	< 100
1,2-Dibromoethane			2	50000		<2.0	<2.0	< 0.50	< 2.0	< 200	< 100	< 2.0	< 1200	< 2.0	< 2.0	< 2.0	< 2.0	< 120	< 100	< 2.0	< 2.0	< 2.0	< 4.0	NT				<40	<80	<80	< 1200	< 2.0	< 2.0	< 200
Dibromomethane (Methylene bromide)			NS	NS		<2.0	<2.0	< 1.0	< 5.0	< 200	< 100	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 100	< 5.0	< 5.0	< 5.0	< 10	NT				<40	<80	<80	< 2500	< 5.0	< 5.0	< 500
1,2-Dichlorobenzene			8000	2000		<1.0	<1.0	< 1.0	< 1.0	< 200	< 100	< 1.0	< 1200	< 1.0	< 1.0	< 1.0	< 1.0	< 120	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT				<20	<40	<40	< 1200	< 1.0	< 1.0	< 100
1,3-Dichlorobenzene			6000	50000		<1.0	<1.0	< 1.0	< 1.0	< 200	< 100	< 1.0	< 1200	< 1.0	< 1.0	< 1.0	< 1.0	< 120	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT				<20	<40	<40	< 1200	< 1.0	< 1.0	< 100
1,4-Dichlorobenzene			60	8000		<1.0	<1.0	< 1.0	< 1.0	< 200	< 100	< 1.0	< 1200	< 1.0	< 1.0	< 1.0	< 1.0	< 120	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	<1.0	<1.0	<1.0	<20	<40	<40	< 1200	< 1.0	< 1.0	< 100
Dichlorodifluoromethane			NS	NS		<2.0	<2.0	< 2.0	< 2.0	< 400	< 200	< 2.0	< 2500	< 2.0	< 2.0	< 2.0	< 2.0	< 250	< 200	< 2.0	< 2.0	< 2.0	< 4.0	NT				<40	<80	<80	< 2500	< 2.0	< 2.0	< 200
1,1-Dichloroethane			2000	20000		<1.0	<1.0	< 1.0	< 1.0	< 200	< 100	15.9	< 380	11.4	12.0	8.5	12.7	< 38	< 100	1.0	20.9	5.7	< 2.0	12.4	<1.0	<1.0	<1.0	<20	<40	<40	< 380	21.6	36.5	< 100
1,2-Dichloroethane			5	20000		<1.0	<1.0	< 1.0	< 1.0	< 200	< 100	103	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	<20	<40	<40	< 250	< 1.0	< 1.0	< 100
1,1-Dichloroethylene			80	30000		<1.0	<1.0	1.6	< 1.0	< 200	< 100	556 E	< 250	11.7	19.3	9.0	24.4	< 25	< 100	10.1	45.0	9.8	2.1	23.8	0.65 J	<1.0	<1.0	<20	<40	<40	< 250	91.0	84.4	< 100
cis-1,2-Dichloroethylene			20	50000		<1.0	<1.0	< 1.0	< 1.0	< 200	< 100	16.6	< 250	2.1	7.3	11.2	2.7	< 25	< 100	3.9	45.7	14.7	1.4 J	26.1	1.7	2.3	3.1	<20	<40	30	< 250	37.2	102	< 100
trans-1,2-Dichloroethylene			90	50000		<1.0	<1.0	< 1.0	< 1.0	< 200	< 100	< 1.0	< 380	< 1.0	< 1.0	< 1.0	< 1.0	< 38	< 100	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	<20	<40	<40	< 380	< 1.0	1.1	< 100
1,2-Dichloropropane			3	50000		<1.0	<1.0	< 1.0	< 2.0	< 200	< 100	< 2.0	< 880	< 2.0	< 2.0	< 2.0	< 2.0	< 88	< 100	< 2.0	< 2.0	< 2.0	< 4.0	NT	<1.0	<1.0	<1.0	<20	<40	<40	< 880	< 2.0	< 2.0	< 200
1,3-Dichloropropane						<2.0	<2.0	< 0.50	< 5.0	< 200	< 100	< 5.0	< 1200	< 5.0	< 5.0	< 5.0	< 5.0	< 120	< 100	< 5.0	< 5.0	< 5.0	< 10	NT				<40	<80	<80	< 1200	< 5.0	< 5.0	< 500
2,2-Dichloropropane						<2.0	<2.0	< 1.0	< 5.0	< 200	< 100	< 5.0	< 1200	< 5.0	< 5.0	< 5.0	< 5.0	< 120	< 100	< 5.0	< 5.0	< 5.0	< 10	NT				<40	<80	<80	< 1200	< 5.0	< 5.0	< 500
1,1-Dichloropropene						<2.0	<2.0	< 0.50	< 5.0	< 200	< 100	< 5.0	< 1200	< 5.0	< 5.0	< 5.0	< 5.0	< 120	< 100	< 5.0	< 5.0	< 5.0	< 10	NT				<40	<80	<80	< 1200	< 5.0	< 5.0	< 500
cis-1,3-Dichloropropene			10	200		<0.40	<0.40	< 0.40	< 0.50	< 200	< 100	< 0.50	< 250	< 0.50	< 0.50	< 0.50	< 0.50	< 25	< 100	< 0.50	< 0.50	< 0.50	< 1.0	NT				<8	<16	<16	< 250	< 0.50	< 0.50	< 500
trans-1,3-Dichloropropene			10	200		<0.40	<0.40	< 0.40	< 0.50	< 200	< 100	< 0.50	< 250	< 0.50	< 0.50	< 0.50	< 0.50	< 25	< 100	< 0.50	< 0.50	< 0.50	< 1.0	NT				<8	<16	<16	< 250	< 0.50	< 0.50	< 500
Diethyl ether (Ethyl ether)						<2.0	<2.0	< 2.0	< 5.0	NT	NT	< 5.0	< 1200	< 5.0	< 5.0	< 5.0	< 5.0	< 120	NT	< 5.0	< 5.0	< 5.0	< 10	NT				<40	<80	<80	< 1200	< 5.0	< 5.0	< 500
Di-Isopropyl ether						<2.0	<2.0	< 0.50	< 2.0	NT	NT	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 4.0	NT				<40	<80	<80	NT	< 2.0	< 2.0	< 200
1,4-Dioxane			5000	50000		<50	<50	< 50	< 25	NT	NT	57700	NT	< 25	< 25 R	< 25	< 25	NT	NT	< 25	< 25 R	< 25	< 5.0	NT	<130	<130	<130	<5000	<10000	<10000	NT	< 25	< 25 R	< 2500
Ethylbenzene			20000	5000		<1.0	<1.0	< 1.0	< 1.0	< 200	< 100	< 1.0	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	<1.0	<1.0	<1.0	<20	<40	<40	< 250	< 1.0	< 1.0	180
Hexachlorobutadiene			50	3000		<0.60	<0.60	< 0.60	< 5.0	< 200	< 100	< 5.0	< 1200	< 5.0	< 5.0	< 5.0	< 5.0	< 120	< 100	< 5.0	< 5.0	< 5.0	< 10	NT				<12	<24	<24	< 1200	< 5.0	< 5.0	< 500
2-Hexanone			NS	NS		<5.0	<5.0	< 10	< 5.0	< 2000	< 1000	5.3	NT	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 1000	< 5.0	< 5.0	< 5.0	< 10	NT	<5.0	<5.0	<5.0	<100	<200 K-	<200	NT	< 5.0	< 5.0	< 500
Isopropyl benzene			NS	NS		2.3	<2.0	< 1.0	< 5.0	< 200	< 100	< 5.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 100	< 5.0	< 5.0	< 5.0	< 10	NT				<40	<80	<80	< 250	< 5.0	< 5.0	< 500
4-Isopropyltoluene			NS	NS		<2.0	<2.0	< 1.0	< 5.0	< 200	< 100	< 5.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 100	< 5.0	< 5.0	< 5.0	< 10	NT				<40	<80	<80	< 250	< 5.0	< 5.0	< 500
Methyl tert-butyl ether			50000	50000		<2.0	<2.0	< 1.0	66.4	< 200	< 100	< 1.0	< 5.0	< 1.0	0.71 J J+	< 1.0	0.74 J J+	< 5.0	< 100	< 1.0	8.7 J+	1.4	< 2.0	NT	<1.0	<1.0	<1.0	<40	<80	<80	< 5.0	5.1	8.2 J+	< 100
4-Methyl-2-pentanone (MIBK)			50000	50000		<5.0	<5.0	< 10	< 5.0	< 2000	< 1000	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 1000	< 5.0	< 5.0	< 5.0	< 10	NT				<100	<200	<200	< 2500	< 5.0	< 5.0	< 500
Methylene chloride			2000	50000		<2.0	<2.0	< 2.0	< 2.0	< 2000	< 1000	12.2	< 2500	< 2.0	< 2.0	< 2.0	< 2.0	< 250	< 1000	< 2.0	< 2.0	< 2.0	2.3 J	NT	<2.0	<2.0	<2.0	<40	<80	<80	< 2500	< 2.0	< 2.0	< 200
Naphthalene			700	20000		<2.0	<2.0	< 2.0	< 5.0	< 200	< 5.0	< 5.0	< 1200	< 5.0	< 5.0	< 5.0	< 5.0	< 120	< 100	< 5.0	< 5.0	< 5.0	< 10	NT	<5.0	<5.0	<5.0	<40	<80	<80	< 1200	< 5.0	< 5.0	392 J
n-Propylbenzene			NS	NS		3.4	<2.0	< 1.0	< 5.0	< 200	< 100	< 5.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 100	< 5.0	< 5.0	< 5.0	< 10	NT				<40	<80	<80	< 250	< 5.0	< 5.0	< 500
Styrene			100	6000		<1.0	<1.0	< 1.0	< 5.0	< 200	< 100	< 5.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 100	< 5.0	< 5.0	< 5.0	< 10	NT				<20	<40	<40	< 250	< 5.0	< 5.0	< 500
Tert-amyl methyl ether			NS	NS		<2.0	<2.0	< 0.50	< 2.0	NT	NT	1.9 J	NT	< 2.0	< 2.0	< 2.0	< 2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 4.0	NT	<2.0	<2.0	<2.0	<40	<80	<80	NT	< 2.0	< 2.0	< 200
Tert-butyl ethyl ether			NS	NS		<2.0	<2.0	< 0.50	< 2.0	NT	NT	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 4.0	NT				<40	<80	<80	NT	< 2.0	< 2.0	< 200
1,1,1,2-Tetrachloroethane			10	50000		<1.0	<1.0	< 1.0	< 5.0	< 200	< 100	40.4	< 250	< 5.0	< 5.0	< 5.0	< 5.0 F+	< 5.0	< 100	< 5.0	< 5.0	< 5.0 F+	< 10	NT	<1.0	<1.0	<1.0	<20	<40	<40	< 250	< 5.0	< 5.0	< 500
1,1,2,2-Tetrachloroethane			9	50000		<1.0	<1.0	< 0.50	< 1.0	< 200	< 100	< 1.0	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0				<20	<40	<40	< 250	< 1.0	< 1.0	< 100
Tetrachloroethylene (PCE)			20	30000		<1.0	1	40	< 1.0	49700	19500	7240	21000	16200	28300	31700 F+	48900	2000	7170	1730	7190	2880 F+	726	3320	365	459	439	2500	3800	3400	26000	16900	28300	29700
Tetrahydrofuran			NS	NS		<2.0	<2.0	< 2.0	< 10	NT	NT	< 10	NT	< 10	< 10	< 10	< 10	NT	NT	< 10	< 10	< 10	< 20	NT	<10	<10	<10	<40	<80 K-	<80	NT	< 10	< 10	< 1000
Toluene			50000	40000		<1.0	<1.0	< 1.0	< 1.0	< 200	< 100	1.8	< 380	0.61 J	0.47 J	< 1.0	0.36 J	< 38	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	<1.0	<1.0	<1.0	<20	<40	<40	< 380	< 1.0	< 1.0	< 100
1,2,3-Trichlorobenzene			NS	NS		<2.0	<2.0	< 2.0	< 5.0	< 200	< 100	< 5.0	< 1200	< 5.0	< 5.0	< 5.0	< 5.0	< 120	< 100	< 5.0	< 5.0	< 5.0	< 10	NT				<40	<80	<80	< 1200	< 5.0	< 5.0	< 500
1,2,4-Trichlorobenzene			200	50000		<2.0	<2.0	< 1.0	< 5.0	< 200	< 100	< 5.0	< 1200	< 5.0	< 5.0	< 5.0	< 5.0	< 120	< 100	< 5.0	< 5.0	< 5.0	< 10	NT				<40	<80	<80	< 1200	< 5.0	< 5.0	< 500
1,1,1-Trichloroethane (TCA)			4000	20000		<1.0	<1.0	< 1.0	< 1.0	1150	2070	7610	< 250	34.5	69.7 J+	31.4	27.9 J+	660	1550	158	1330	360	44.1	539	6.8	7.9	14.8	<20	<40	<40	1200	989	1680	806
1,1,2-Trichloroethane			900	50000		<1.0	<1.0	< 1.0	< 1.0	< 200	< 100	172	< 380	< 1.0	< 1.0	< 1.0	< 1.0	< 38	< 100	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	<20	<40	<40	< 380	< 1.0	< 1.0	< 100
Trichloroethylene (TCE)			5	5000		<1.0	<1.0	4.1	< 1.0	906	1440	7580	< 5.0	141	317	141	159	190	572	92.8	486	171	26.5	354	13.2	14.8	16.7	42	56	60	870	482	1030	709
Trichlorofluoromethane			NS	NS		<2.0	<2.0	< 2.0	< 1.0	< 200	< 100	< 1.0	< 1200	< 1.0	< 1.0	< 1.0	< 1.0	< 120	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT				<40	<80	<80	< 1200	< 1.0	< 1.0	< 100
1,2,3-Trichloropropane			NS	NS		<2.0	<2.0	< 2.0	< 5.0	< 200	< 100	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 100	< 5.0	< 5.0	< 5.0	< 10	NT				<40	<80	<80	< 2500	< 5.0	< 5.0	< 500
1,2,4-Trimethylbenzene			NS	NS		<2.0	<2.0	< 1.0	< 5.0	< 200	< 100	< 5.0	< 1200	< 5.0	< 5.0	< 5.0	< 5.0	< 120	< 100	< 5.0	< 5.0	< 5.0	< 10	NT				<40	<80	<80	< 1200	< 5.0	< 5.0	306 J
1,3,5-Trimethylbenzene			NS	NS		<2.0	<2.0	< 1.0	< 5.0	< 200	< 100	< 5.0	< 1200	< 5.0	< 5.0	< 5.0	< 5.0	< 120	< 100	< 5.0	< 5.0	< 5.0	< 10	NT				<40	<80	<80	< 1200	< 5.0	< 5.0	70.2 J
Vinyl chloride			2	50000		<1.0	<1.0	< 2.0	< 1.0	< 200	< 100	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	0.55 J	< 5.0	< 100	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	<20	<40	<40	< 5.0	< 1.0	< 1.0	< 100
m,p-Xylene			3000	5000		<2.0	<2.0	< 2.0	< 1.0	< 400	< 200	< 1.0	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 200	< 1.0	< 1.0	< 1.0	< 2.0	NT	<1.0	<1.0	<1.0	<40	<80	<80	< 250	< 1.0	< 1.0	484
o-Xylene			3000	5000		<1.0	<1.0	< 1.0	< 1.0	< 200	< 100	< 1.0	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	<1.0	<1.0	<1.0	<20	<40	<40	< 250	< 1.0	< 1.0	< 100
Total Xylene			3000	5000		<1.0	<1.0	< 1.0	< 1.0	ND	ND	< 1.0	ND	< 1.0	< 1.0	< 1.0	< 1.0	ND	ND	< 1.0	< 1.0	< 1.0	< 2.0	NT	<1.0	<1.0	<1.0	<20	<40	<40	ND	< 1.0	< 1.0	543

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

					Sample Location:	**SHMW3**	**SHMW3**	**SHMW3**	**SHMW3**	**SH-MW3**	**SH-MW3**	**SH-MW3**	**SH-MW3**	**SH-MW3**	**COBBLE-IR-1**
					Sample Name:	**SHMW3 10 to 24 4/12/07 GEI**	**SHMW3 10 to 24 4/15/08 GEI**	**SHMW3 10 to 24 4/13/10 GEI**	**SHMW3 10 to 24 4/21/11 GEI**	**SH-MW3 10 to 24 4/16/12 GEI**	**SH-MW3 10 to 24 4/23/13 GEI**	**SH-MW3 10 to 24 4/30/14 GEI**	**SH-MW3 10 to 24 4/2/15 GEI**	**COBBLE-IR-1 Unknown 6/25/07 GEI**
					Well Screen Interval (ft bgs):									
					Sample Date:									
					Collected By:									
Analyte	**Method**	**Units**	**Method 1 GW-2 Standard**	**Method 1 GW-3 Standard**										
Volatile Organic Compounds (VOCs)	8260	µg/l												
Acetone			50000	50000	< 5.0	< 500	< 5.0	< 500	< 250	< 500	< 10	< 500	5.8
Acrylonitrile			NS	NS	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000	< 0.50	< 500	< 0.50	< 50	< 25	< 25	< 0.50	< 25	< 0.50
Bromobenzene			NS	NS	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
Bromochloromethane			NS	NS	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
Bromodichloromethane			6	50000	< 1.0	< 100	< 1.0	< 100	< 50	< 50	< 1.0	< 50	0.32 J
Bromoform			700	50000	< 1.0	< 100	< 1.0	< 100	< 50	< 50	< 1.0	< 50	< 1.0
Bromomethane			7	800	< 2.0	< 200	< 2.0	< 200	< 100	< 100	< 2.0	< 100	< 2.0
2-Butanone (MEK)			50000	50000	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
n-Butylbenzene			NS	NS	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
sec-Butylbenzene			NS	NS	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
tert-Butylbenzene			NS	NS	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
Carbon disulfide			NS	NS	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
Carbon tetrachloride			2	5000	< 1.0	< 100	< 1.0	< 100	< 50	< 50	< 1.0	< 50	< 1.0
Chlorobenzene			200	1000	< 1.0	< 100	< 1.0	< 100	< 50	< 50	< 1.0	< 50	< 1.0
Chloroethane			NS	NS	< 2.0	< 200	< 2.0	< 200	< 100	< 100	< 2.0	< 100	< 2.0
Chloroform			50	20000	1.1	< 100	< 1.0	< 100	< 50	< 50	< 1.0	< 50	5.6
Chloromethane			NS	NS	< 2.0	< 200	< 2.0	< 200	< 100	< 100	< 2.0	< 100	< 2.0
2-Chlorotoluene			NS	NS	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
4-Chlorotoluene			NS	NS	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
Dibromochloromethane			20	50000	< 1.0	< 100	< 1.0	< 100	< 50	< 50	< 1.0	< 50	< 1.0
1,2-Dibromoethane			2	50000	< 2.0	< 200	< 2.0	< 200	< 100	< 100	< 2.0	< 100	< 2.0
Dibromomethane (Methylene bromide)			NS	NS	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
1,2-Dichlorobenzene			8000	2000	< 1.0	< 100	< 1.0	< 100	< 50	< 50	< 1.0	< 50	< 1.0
1,3-Dichlorobenzene			6000	50000	< 1.0	< 100	< 1.0	< 100	< 50	< 50	< 1.0	< 50	< 1.0
1,4-Dichlorobenzene			60	8000	< 1.0	< 100	< 1.0	< 100	< 50	< 50	< 1.0	< 50	< 1.0
Dichlorodifluoromethane			NS	NS	< 2.0	< 200	< 2.0	< 200	< 100	< 100	< 2.0	< 2.0	< 2.0 R
1,1-Dichloroethane			2000	20000	24.5	< 100	19.5	< 100	< 50	< 50	12.6	24.0 J	< 1.0
1,2-Dichloroethane			5	20000	< 1.0	< 100	< 1.0	< 100	< 50	< 50	< 1.0	< 50	< 1.0
1,1-Dichloroethylene			80	30000	91.3	< 100	14.2	< 100	< 50	< 50	12.5	<50	< 1.0
cis-1,2-Dichloroethylene			20	50000	39.8	34.5 J	19.8	< 100	< 50	< 50	40.1	27.7 J	< 1.0
trans-1,2-Dichloroethylene			90	50000	< 1.0	< 100	< 1.0	< 100	< 50	< 50	< 1.0	< 50	< 1.0
1,2-Dichloropropane			3	50000	< 2.0	< 200	< 2.0	< 200	< 100	< 100	< 2.0	< 100	< 2.0
1,3-Dichloropropane					< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
2,2-Dichloropropane					< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
1,1-Dichloropropene					< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
cis-1,3-Dichloropropene			10	200	< 0.50	< 50	< 0.50	< 50	< 25	< 25	< 0.50	< 25	< 0.50
trans-1,3-Dichloropropene			10	200	< 0.50	< 50	< 0.50	< 50	< 25	< 25	< 0.50	< 25	< 0.50
Diethyl ether (Ethyl ether)					< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
Di-Isopropyl ether					< 2.0	< 200	< 2.0	< 200	< 100	< 100	< 2.0	< 100	< 2.0
1,4-Dioxane			5000	50000	< 25	< 2500	< 25	< 2500	< 1300	< 2600	< 25 K-	<1300	< 25
Ethylbenzene			20000	5000	< 1.0	< 100	< 1.0	< 100	< 50	< 50	< 1.0	< 50	< 1.0
Hexachlorobutadiene			50	3000	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
2-Hexanone			NS	NS	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
Isopropyl benzene			NS	NS	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
4-Isopropyltoluene			NS	NS	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
Methyl tert-butyl ether			50000	50000	2.4 J+	< 100	0.83 J	< 100	< 50	< 50 K-	< 1.0	< 50	< 1.0
4-Methyl-2-pentanone (MIBK)			50000	50000	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
Methylene chloride			2000	50000	< 2.0	< 200	< 2.0	450	< 100	< 100	< 2.0	< 100	< 2.0
Naphthalene			700	20000	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
n-Propylbenzene			NS	NS	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
Styrene			100	6000	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
Tert-amyl methyl ether			NS	NS	< 2.0	< 200	< 2.0	< 200	< 100	< 100	< 2.0	< 100	< 2.0
Tert-butyl ethyl ether			NS	NS	< 2.0	< 200	< 2.0	< 200	< 100	< 100	< 2.0	< 100	< 2.0
1,1,1,2-Tetrachloroethane			10	50000	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	<50	< 5.0
1,1,2,2-Tetrachloroethane			9	50000	< 1.0	< 100	< 1.0	< 100	< 50	< 50	< 0.50	< 50	< 1.0
Tetrachloroethylene (PCE)			20	30000	34000	15200	20300	16900	7310	9650	14500	12800	< 1.0
Tetrahydrofuran			NS	NS	< 10	< 1000	< 10	< 1000	< 500	< 500	< 10 G	< 500	< 10
Toluene			50000	40000	< 1.0	< 100	< 1.0	< 100	< 50	< 50	< 1.0	< 50	< 1.0
1,2,3-Trichlorobenzene			NS	NS	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
1,2,4-Trichlorobenzene			200	50000	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000	621 E J+	119	19.8 J	< 100	83.0	< 50	48.0	49.9 J	< 1.0
1,1,2-Trichloroethane			900	50000	< 1.0	< 100	< 1.0	< 100	< 50	< 50	< 1.0	< 50	< 1.0
Trichloroethylene (TCE)			5	5000	1030	306	383.0	342	152	157	231	218	< 1.0
Trichlorofluoromethane			NS	NS	< 1.0	< 100	< 1.0	< 100	< 50	< 50	< 1.0	< 50	< 1.0
1,2,3-Trichloropropane			NS	NS	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
1,2,4-Trimethylbenzene			NS	NS	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
1,3,5-Trimethylbenzene			NS	NS	< 5.0	< 500	< 5.0	< 500	< 250	< 250	< 5.0	< 250	< 5.0
Vinyl chloride			2	50000	0.83 J	< 100	< 1.0	< 100	< 50	< 50	< 1.0	< 50	< 1.0
m,p-Xylene			3000	5000	< 1.0	< 100	< 1.0	< 100	< 50	< 50	< 1.0	< 50	< 1.0
o-Xylene			3000	5000	< 1.0	< 100	< 1.0	< 100	< 50	< 50	< 1.0	< 50	< 1.0
Total Xylene			3000	5000	< 1.0	< 100	< 1.0	< 100	< 50	< 50	< 1.0	< 50	< 1.0

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	GEO-1	GEO-1	GEO-1	GEO-1	GEO1	GEO1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1
					Sample Name:	GEO-1	GEO-1	GEO-1	GEO-1	MW800 (FD)	GEO1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1	GEO-1
					Well Screen Interval (ft bgs):	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20
					Sample Date:	8/16/04	5/23/06	10/5/06	1/17/07	1/17/07	4/12/07	4/15/08	7/15/08	10/21/08	1/13/09	4/13/09	7/15/09	10/14/09	4/13/10	4/22/11	4/17/12	4/24/13	4/30/14	4/2/15	4/28/16	4/17/17	4/4/18	4/16/19	4/17/20	4/14/21	4/13/22	4/18/23	4/2/24	4/23/25	11/13/25
					Collected By:	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT								NT	NT
TPH-DRO																																		
Metals (Total)	6010B	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																														
Iron			NS	NS																														
Manganese			NS	NS																														
Metals (Dissolved)	6010C	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																														
Others						NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																														
Ethane	8015	µg/l	NS	NS																														
Ethylene	8015	µg/l	NS	NS																														
Alkalinity	E310.1	µg/l*	NS	NS																														
Chloride	E325.3	µg/l	NS	NS																														
Chlorine, Total Residual	E330.4	µg/l																																
Iron, Ferrous	3500FE B	µg/l	NS	NS																														
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																														
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																														
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																														
Sodium	6010C	µg/l	NS	NS																														
Sulfate	E375.4	µg/l	NS	NS																														
Sulfide	E376.1	µg/l																																
Surfactants	E425.1	µg/l	NS	NS																														
Total Organic Carbon	E415.1	µg/l	NS	NS																														

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:
B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	GEO-2	GEO-2	GEO-2	GEO-2	GEO2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2
					Sample Name:	GEO-2 5 to 20	GEO-2 5 to 20	GEO-2 5 to 20	GEO-2 5 to 20	GEO2 5 to 20	GEO-2 5 to 20	GEO-2 5 to 20	GEO-2 5 to 20	GEO-2 5 to 20	GEO-2 5 to 20	GEO-2 5 to 20	GEO-2 5 to 20	GEO-2 5 to 20	GEO-2 5 to 20	GEO-2 5 to 20	GEO-2 5 to 20	MW901 (FD) 5 to 20	GEO-2 5 to 20	GEO-2 5 to 20	MW901 (FD) 5 to 20	GEO-2 5 to 20	MW901 (FD) 5 to 20	GEO-2 5 to 20	MW901 (FD) 5 to 20	GEO-2 5 to 20	MW901 5 to 20	GEO-2 5 to 20
					Well Screen Interval (ft bgs):																											
					Sample Date:	8/16/04	5/23/06	10/5/06	1/17/07	4/12/07	7/15/08	10/22/08	1/13/09	4/13/09	7/15/09	10/14/09	4/13/10	4/21/11	5/1/13	4/30/14	4/2/15	4/29/16	4/29/16	4/18/17	4/4/18	4/4/2018	4/16/2019	4/16/2019	4/17/2020	4/17/2020	4/14/2021	4/14/2021	4/14/2022
					Collected By:	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT											
TPH-DRO																															
Metals (Total)	6010B	µg/l			NT	NT	NT		NT	NT	NT	NT	NT	NT	NT						NT				NT		NT		NT		
Arsenic			NS	900				< 10								NT	NT	NT	NT	NT	NT		NT	NT		NT		NT		NT	NT
Iron			NS	NS				< 100								< 100 J+	< 100	< 100	NT	NT	NT		NT	NT		NT		NT		NT	NT
Manganese			NS	NS				NT								< 15	< 15	< 15	< 15	< 15	< 15		<15	<15		<15		<10		<10		<10
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																											
Others					NT	NT	NT		NT	NT	NT	NT	NT	NT	NT						NT				NT		NT		NT	NT	
Methane	8015	µg/l	NS	NS				< 10								1.58	< 0.30	< 0.30	< 10	< 10	< 10		<10	<0.11		0.14		<1.0		<2.00		<2.00
Ethane	8015	µg/l	NS	NS				< 10								< 0.10	< 0.10	< 0.10	< 10	< 10	< 10		<10	<0.23		<0.23		<0.5		<0.500		<0.500
Ethylene	8015	µg/l	NS	NS				< 10								< 0.10	< 0.10	< 0.10	< 10	< 10	< 10		<10	<0.31		<0.31		<0.5		<0.500		<0.500
Alkalinity	E310.1	µg/l*	NS	NS				104000								44100	50400	64600	69000	48400	50300		34000	32800		221000		28500		28,300		43,400
Chloride	E325.3	µg/l	NS	NS				1310000								165000	53700	252000	175000	220000	290000		287000	254000		198000		420000		270,000		38,000
Chlorine, Total Residual	E330.4	µg/l						NT								< 50 A	< 50	< 50	< 50 A	< 50 A				1130		<100		<20		<20		<20
Iron, Ferrous	3500FE B	µg/l	NS	NS				NT								NT	NT	NT	< 100	< 100	< 100		<100	<200		<200		<500		<500		<500
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS				7000								6700	4400	3300	1700	1600	1500		1700	2300		1700		630		1,400		770
Nitrogen, Nitrate	E353.2	µg/l	NS	NS				7000								6700	4400	3300	1700	1600	1500		1700	2300		1700		629		1,320		755
Nitrogen, Nitrite	E354.1	µg/l	NS	NS				< 10								< 10	< 10	< 10	< 10	< 10	< 10		<10	<10		<10		<300		<300		564
Sodium	6010C	µg/l	NS	NS				NT								NT	NT	NT	NT	NT	NT		NT	NT		NT		NT		NT		NT
Sulfate	E375.4	µg/l	NS	NS				88000								117000	105000	67800	38900	27500	30900		21600	19000		15900		<10000		<10,000		<10,000
Sulfide	E376.1	µg/l						< 2000								< 2000	< 2000	< 2000	< 2000	< 2000				<2000		<2000		<100		<100		<100
Surfactants	E425.1	µg/l	NS	NS				< 100								< 100	< 100	< 100	< 100	< 100	< 100		<100	<100		<100		<50		<50		<50
Total Organic Carbon	E415.1	µg/l	NS	NS				< 1000								2400	4600	1700	1000	<5000	< 1000		<1000	1000		<1000		<500		<500		570

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-3	GEO-3	GEO-3	GEO-3	GEO-3	GEO-3	GEO3	GEO-4	GEO-4	GEO-4	GEO-4	GEO-4	GEO-4	GEO-4	GEO-4	GEO-5	GEO-5	GEO-5
					Sample Name:	MW901	GEO-2	MW901	GEO-2	MW901	GEO-2	MW901	GEO-2	MW901	GEO-3	GEO-3	MW900 (FD)	GEO-3	MW900 (FD)	GEO-3	GEO3	GEO-4	GEO-4	GEO-4	GEO-4	GEO-4	GEO-4	GEO-4	GEO-4	GEO-5	GEO-5	GEO-5
					Well Screen Interval (ft bgs):	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	5 to 20	5 to 20	5 to 20
					Sample Date:	4/14/2022	4/18/2023	4/18/2023	4/4/2024	4/4/2024	4/23/2025	4/23/2025	11/11/2025	11/11/2025	8/16/04	5/24/06	5/24/06	10/4/06	10/4/06	1/16/07	4/13/07	8/16/04	5/24/06	10/4/06	1/16/07	4/16/07	4/4/24	3/18/25	11/12/25	8/16/04	5/24/06	10/4/06
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GeoInsight	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L								NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																																
Metals (Total)	6010B	µg/l			NT		NT	NT	NT			NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900		NT				NT			NT																		
Iron			NS	NS		NT				NT			NT																		
Manganese			NS	NS		<10				<10			55.5																		
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																												
Others					NT		NT	NT	NT	NT		NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS		<2.00				<5.0			<2.6																		
Ethane	8015	µg/l	NS	NS		<0.500				<3.0			<5.2																		
Ethylene	8015	µg/l	NS	NS		<0.500				<3.0			<6.5																		
Alkalinity	E310.1	µg/l*	NS	NS		27,000				40.5			31.6																		
Chloride	E325.3	µg/l	NS	NS		270,000				130000			2000000																		
Chlorine, Total Residual	E330.4	µg/l				<20							<200																		
Iron, Ferrous	3500FE B	µg/l	NS	NS		<500				<500			<500																		
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS		3,000				7600			5600																		
Nitrogen, Nitrate	E353.2	µg/l	NS	NS		3,050				6950			5630																		
Nitrogen, Nitrite	E354.1	µg/l	NS	NS		<300				<300			5600																		
Sodium	6010C	µg/l	NS	NS		NT				NT			NT																		
Sulfate	E375.4	µg/l	NS	NS		12000				20000			180000																		
Sulfide	E376.1	µg/l				<100							<20000																		
Surfactants	E425.1	µg/l	NS	NS		<50				<50			<50																		
Total Organic Carbon	E415.1	µg/l	NS	NS		<500				790			1000																		

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:
B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	GEO-5	GEO-5	GEO-5	GEO-5	GEO-5	GEO-6	GEO-6	GEO-6	GEO-6	GEO-6	GEO6	GEO-6	GEO-6	GEO-6	GEO-6	MW-1	MW-1	MW-1	MW-1	MW1	MW-101	MW101	MW101	MW101	MW101	MW-102	MW102	MW102	MW102
					Sample Name:	GEO-5	GEO-5	GEO-5	GEO-5	GEO-5	GEO-6	GEO-6	GEO-6	GEO-6	MW900 (FD	GEO-6	MW901 (FD	GEO-6	GEO-6	GEO-6	MW-1	MW-1	MW-1	MW-1	MW1	MW-101	MW101	MW101	MW101	MW101	MW900	MW-102	MW102	MW102	MW102
					Well Screen Interval (ft bgs):	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	Unknown	Unknown	Unknown	Unknown	Unknown	9 to 19	9 to 19	9 to 19	9 to 19	9 to 19	9 to 19	6 to 16	6 to 16	6 to 16	6 to 16
					Sample Date:	1/16/07	4/16/07	4/3/24	3/18/25	11/12/25	8/16/04	5/24/06	10/4/06	1/16/07	1/16/07	4/16/07	4/16/07	4/3/24	3/19/25	11/12/25	7/1/02	8/9/04	5/23/06	1/17/07	4/17/07	5/24/06	10/5/06	1/17/07	4/13/07	4/13/07	5/24/06	10/5/06	1/16/07	4/13/07
					Collected By:	GEI	GEI	GEI	GEI	GEI	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	SHA	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																																		
Metals (Total)	6010B	µg/l				NT	NT	NT	NT	NT	NT	NT	NT			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900										< 10	< 10																			
Iron			NS	NS										< 100	< 100																			
Manganese			NS	NS										NT	NT																			
Metals (Dissolved)	6010C	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																														
Others						NT	NT	NT	NT	NT	NT	NT	NT			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS										< 10	< 10																			
Ethane	8015	µg/l	NS	NS										< 10	< 10																			
Ethylene	8015	µg/l	NS	NS										< 10	< 10																			
Alkalinity	E310.1	µg/l*	NS	NS										134000	133000																			
Chloride	E325.3	µg/l	NS	NS										825000	825000																			
Chlorine, Total Residual	E330.4	µg/l												NT	NT																			
Iron, Ferrous	3500FE B	µg/l	NS	NS										NT	NT																			
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS										3500	3500																			
Nitrogen, Nitrate	E353.2	µg/l	NS	NS										3500	3500																			
Nitrogen, Nitrite	E354.1	µg/l	NS	NS										< 10	< 10																			
Sodium	6010C	µg/l	NS	NS										NT	NT																			
Sulfate	E375.4	µg/l	NS	NS										45800	45500																			
Sulfide	E376.1	µg/l												< 2000	< 2000																			
Surfactants	E425.1	µg/l	NS	NS										< 100	< 100																			
Total Organic Carbon	E415.1	µg/l	NS	NS										< 1000	< 1000																			

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:
B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW103	MW103	MW103	MW-103	MW103	MW103	MW103	MW103	MW103	MW104	MW104	MW104	MW104	MW104	MW104	MW104	MW104	MW104	MW104	MW104	MW104	MW104
					Sample Name:	MW102 6 to 16 7/18/07 GEI	MW102 6 to 16 10/10/07 GEI	MW102 6 to 16 1/10/08 GEI	MW102 6 to 16 4/17/08 GEI	MW102 6 to 16 4/3/24 GEI	MW102 6 to 16 4/23/25 GEI	MW102 6 to 16 11/11/25 GEI	MW-103 6 to 16 5/24/06 GEI	MW103 6 to 16 8/7/06 GEI	MW103 6 to 16 10/5/06 GEI	MW103 6 to 16 1/16/07 GEI	MW103 6 to 16 1/18/07 GEI	MW103 6 to 16 4/13/07 GEI	MW103 6 to 16 4/3/24 GEI	MW103 6 to 16 4/23/25 GEI	MW103 6 to 16 11/11/25 GEI	MW-104 5 to 15 5/23/06 GEI	MW104 5 to 15 10/5/06 GEI	MW104 6 to 16 1/16/07 GEI	MW104 5 to 15 4/13/07 GEI	MW104 5 to 15 7/19/07 GEI	MW104 5 to 15 10/15/07 GEI	MW104 5 to 15 1/11/08 GEI	MW104 5 to 15 4/15/08 GEI	MW104 5 to 15 7/15/08 GEI	MW104 5 to 15 10/21/08 GEI	MW104 5 to 15 1/14/09 GEI	MW104 5 to 15 4/14/09 GEI	MW104 5 to 15 7/15/09 GEI	MW104 5 to 15 10/14/09 GEI
					Well Screen Interval (ft bgs):																													
					Sample Date:																													
					Collected By:																													
Total Petroleum Hydrocarbons (TPH)				mg/L		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																																		
Metals (Total)	6010B	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900													< 10																	
Iron			NS	NS													< 100																	
Manganese			NS	NS													NT																	
Metals (Dissolved)	6010C	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																														
Others						NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS													< 10																	
Ethane	8015	µg/l	NS	NS													< 10																	
Ethylene	8015	µg/l	NS	NS													< 10																	
Alkalinity	E310.1	µg/l*	NS	NS													53500																	
Chloride	E325.3	µg/l	NS	NS													675000																	
Chlorine, Total Residual	E330.4	µg/l															NT																	
Iron, Ferrous	3500FE B	µg/l	NS	NS													NT																	
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS													8900																	
Nitrogen, Nitrate	E353.2	µg/l	NS	NS													8900																	
Nitrogen, Nitrite	E354.1	µg/l	NS	NS													16																	
Sodium	6010C	µg/l	NS	NS													NT																	
Sulfate	E375.4	µg/l	NS	NS													65700																	
Sulfide	E376.1	µg/l															< 2000																	
Surfactants	E425.1	µg/l	NS	NS													< 100																	
Total Organic Carbon	E415.1	µg/l	NS	NS													1700																	

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:
B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW104	MW104	MW104	MW104	MW104	MW104	MW104	MW104	MW104	MW104	MW104R	MW104R	MW104R	MW-104R	MW-104R	MW-104R	MW105	MW105	MW105	MW105	MW105	MW105	MW105	MW105	MW105	MW105	MW105	MW105	MW105
					Sample Name:	MW104 5 to 15 4/12/10 GEI	MW104 5 to 15 4/21/11 GEI	MW104 5 to 15 4/17/12 GEI	MW104 5 to 15 4/24/13 GEI	MW104 5 to 15 4/30/14 GEI	MW104 5 to 15 4/2/15 GEI	MW104 5 to 15 4/29/16 GEI	MW104 5 to 15 4/17/17 GEI	MW104 5 to 15 4/28/17 GEI	MW104 5 to 15 4/4/18 GEI	MW104R 5 to 15 4/4/24 GEI	MW104R 5 to 15 9/20/24 GEI	MW104R 5 to 15 11/14/24 GEI	MW-104R 5 to 15 1/20/25 GEI	MW-104R 5 to 15 4/23/25 GEI	MW-104R 5 to 15 11/10/25 GEI	MW105 19 to 29 5/24/06 GEI	MW105 19 to 29 10/5/06 GEI	MW105 19 to 29 1/17/07 GEI	MW105 19 to 29 4/16/07 GEI	MW105 19 to 29 7/19/07 GEI	MW105 19 to 29 10/10/07 GEI	MW105 19 to 29 1/9/08 GEI	MW105 19 to 29 4/18/08 GEI	MW105 19 to 29 7/14/08 GEI	MW105 19 to 29 10/22/08 GEI	MW105 19 to 29 1/12/09 GEI	MW105 19 to 29 4/13/09 GEI	MW105 19 to 29 7/14/09 GEI	MW105 19 to 29 10/14/09 GEI
					Well Screen Interval (ft bgs):																														
					Sample Date:																														
					Collected By:																														
Total Petroleum Hydrocarbons (TPH)				mg/L	NT	NT	NT	NT							NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO									< 0.25	< 0.25																								
Metals (Total)	6010B	µg/l											NT		NT	NT	NT	NT			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900	NT	NT	NT	NT	NT	NT	NT	NT		NT					NT	NT														
Iron			NS	NS	2900 J+	11800	10700	15300	8970	NT	NT	NT		NT					NT	NT														
Manganese			NS	NS	1510	3000	2590	2860	1570	154	2440	1150		1950					<10	<10														
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS					9890																									
Others													NT		NT	NT	NT	NT			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS	159	184	724	252	185	<10	20.2	29.9		54.8					5.0	<2.6														
Ethane	8015	µg/l	NS	NS	1.77	2.0	5.4	3.6	3.2 J	<10	< 10	<10		2					<3	<3														
Ethylene	8015	µg/l	NS	NS	0.87	1.1	11.6	4.92	3.8 J	<10	2.3 J	<10		1.6					<3	<3														
Alkalinity	E310.1	µg/l*	NS	NS	338000	373000	464000	413000	393000	298000	319000	429000		336000					164	150														
Chloride	E325.3	µg/l	NS	NS	32500	189000	100000	247000	82500	74500	125000	33700		145000					360000	350000														
Chlorine, Total Residual	E330.4	µg/l			< 50 A	< 50	< 50 R	< 50 A F-	< 50 A	< 50 A				1700						<20														
Iron, Ferrous	3500FE B	µg/l	NS	NS	NT	NT	NT	NT	4800	<100	4600	1200		2400					<500	<500														
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS	120	320	200	280	150	390	< 110	<110		2600					2900	2800														
Nitrogen, Nitrate	E353.2	µg/l	NS	NS	120	320	200	280	150	390	< 100	<100		2600					2750	2810														
Nitrogen, Nitrite	E354.1	µg/l	NS	NS	< 10	< 10	< 10	< 10	< 10	<10	< 10	<10		<10					<300	2800														
Sodium	6010C	µg/l	NS	NS	NT	NT	NT	NT	46400	NT	NT	NT		NT					NT	NT														
Sulfate	E375.4	µg/l	NS	NS	41700	45300	29300	52400	104000	62800	232000	113000		139000					84000	19000														
Sulfide	E376.1	µg/l			< 2000	< 2000	< 2000	< 2000	< 2000	< 2000				<2000						NT														
Surfactants	E425.1	µg/l	NS	NS	< 100	120	190	< 100	< 100	<100	110	<100		130					<50	<50														
Total Organic Carbon	E415.1	µg/l	NS	NS	5900	7400	9800	8500	7500	7000	8600	6600		8200					<500	<500														

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:
B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW105	MW105	MW105	MW105	MW106	MW106	MW106	MW106	MW106	MW106	MW106	MW106	MW106	MW107	MW107	MW107	MW107	MW107	MW107	MW107	MW107	MW107	MW108	MW108	MW108	MW108	MW108	MW108	MW108	MW108
					Sample Name:	MW105 19 to 29 4/12/10 GEI	MW105 19 to 29 4/20/11 GEI	MW105 19 to 29 4/17/12 GEI	MW105 19 to 29 4/23/13 GEI	MW106 9 to 19 1/18/07 GEI	MW106 9 to 19 4/13/07 GEI	MW106 9 to 19 7/19/07 GEI	MW106 9 to 19 10/10/07 GEI	MW106 9 to 19 1/10/08 GEI	MW106 9 to 19 4/17/08 GEI	MW106 9 to 19 4/3/24 GEI	MW106 9 to 19 3/19/25 GEI	MW106 9 to 19 11/12/25 GEI	MW107 2 to 12 1/18/07 GEI	MW107 2 to 12 4/13/07 GEI	MW107 2 to 12 7/18/07 GEI	MW107 2 to 12 10/10/07 GEI	MW107 2 to 12 1/10/08 GEI	MW107 2 to 12 4/17/08 GEI	MW107 2 to 12 4/2/24 GEI	MW107 2 to 12 4/22/25 GEI	MW107 2 to 12 11/12/25 GEI	MW108 2 to 12 1/18/07 GEI	MW108 2 to 12 4/16/07 GEI	MW108 2 to 12 7/18/07 GEI	MW108 2 to 12 10/10/07 GEI	MW108 2 to 12 1/10/08 GEI	MW108 2 to 12 4/17/08 GEI	MW108 2 to 12 9/15/23 GEI	MW108 2 to 12 4/2/24 GEI
					Well Screen Interval (ft bgs):																															
					Sample Date:																															
					Collected By:																															
Total Petroleum Hydrocarbons (TPH)				mg/L		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																																			
Metals (Total)	6010B	µg/l				NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900						< 10										< 10								< 10							
Iron			NS	NS						319										6160								< 100							
Manganese			NS	NS						NT										NT								NT							
Metals (Dissolved)	6010C	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																															
Others						NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS						< 10										4.13 J								0.18 J							
Ethane	8015	µg/l	NS	NS						< 10										< 10								< 10							
Ethylene	8015	µg/l	NS	NS						< 10										< 10								< 10							
Alkalinity	E310.1	µg/l*	NS	NS						83100										174000								71100							
Chloride	E325.3	µg/l	NS	NS						1870000										100000								235000							
Chlorine, Total Residual	E330.4	µg/l								NT										NT								NT							
Iron, Ferrous	3500FE B	µg/l	NS	NS						NT										NT								NT							
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS						12900										100								< 100							
Nitrogen, Nitrate	E353.2	µg/l	NS	NS						12800										< 110								< 110							
Nitrogen, Nitrite	E354.1	µg/l	NS	NS						83										< 10								< 10							
Sodium	6010C	µg/l	NS	NS						NT										NT								NT							
Sulfate	E375.4	µg/l	NS	NS						86800										33400								28100							
Sulfide	E376.1	µg/l								< 2000										< 2000								< 2000							
Surfactants	E425.1	µg/l	NS	NS						< 100										150								< 100							
Total Organic Carbon	E415.1	µg/l	NS	NS						1300										12200								1300							

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW108	MW109	MW109	MW109	MW109	MW109	MW109	MW109	MW110	MW110	MW110	MW111	MW111	MW111	MW111	MW111	MW111	MW111	MW111R	MW111R	MW111R	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A
					Sample Name:	MW108 2 to 13 4/22/25 GEI	MW108 2 to 13 11/12/25 GEI	MW109 3 to 13 1/18/07 GEI	MW109 3 to 13 4/16/07 GEI	MW109 3 to 13 4/17/08 GEI	MW109 3 to 13 4/2/24 GEI	MW109 3 to 13 3/19/25 GEI	MW109 3 to 13 11/13/25 GEI	MW110 3 to 13 1/18/07 GEI	MW110 3 to 13 4/17/07 GEI	MW110 3 to 13 5/23/07 GEI	MW111 4 to 14 1/18/07 GEI	MW111 4 to 14 4/16/07 GEI	MW111 4 to 14 7/18/07 GEI	MW111 4 to 14 10/10/07 GEI	MW111 4 to 14 1/10/08 GEI	MW111 4 to 14 4/17/08 GEI	MW111R 5 to 15 3/7/25 GEI	MW111R 5 to 15 4/24/25 GEI	MW111R 5 to 15 11/12/25 GEI	MW112A 4 to 19 3/23/07 GEI	MW112A 4 to 19 4/16/07 GEI	MW112A 4 to 19 7/18/07 GEI	MW112A 4 to 19 10/10/07 GEI	MW112A 4 to 19 1/10/08 GEI	MW112A 4 to 19 4/17/08 GEI	MW112A 4 to 19 7/14/08 GEI	MW112A MW900 (FD) 4 to 19 7/14/08 GEI	MW112A 4 to 19 10/22/08 GEI	MW112A MW901 (FD) 4 to 19 10/22/08 GEI
					Well Screen Interval (ft bgs):																																
					Sample Date:																																
					Collected By:																																
Total Petroleum Hydrocarbons (TPH)				mg/L		NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																																				
Metals (Total)	6010B	µg/l				NT	NT	NT	NT		NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900										2.9																						
Iron			NS	NS										84000																						
Manganese			NS	NS										NT																						
Metals (Dissolved)	6010C	µg/l				NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																																
Others						NT	NT	NT	NT		NT	NT	NT		NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS										< 10		NT																				
Ethane	8015	µg/l	NS	NS										< 10		NT																				
Ethylene	8015	µg/l	NS	NS										< 10		NT																				
Alkalinity	E310.1	µg/l*	NS	NS										122000		NT																				
Chloride	E325.3	µg/l	NS	NS										142000		1010000																				
Chlorine, Total Residual	E330.4	µg/l												NT		< 50																				
Iron, Ferrous	3500FE B	µg/l	NS	NS										NT		NT																				
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS										2400		NT																				
Nitrogen, Nitrate	E353.2	µg/l	NS	NS										2300		NT																				
Nitrogen, Nitrite	E354.1	µg/l	NS	NS										54		NT																				
Sodium	6010C	µg/l	NS	NS										NT		NT																				
Sulfate	E375.4	µg/l	NS	NS										47700		NT																				
Sulfide	E376.1	µg/l												< 2000		NT																				
Surfactants	E425.1	µg/l	NS	NS										< 100		NT																				
Total Organic Carbon	E415.1	µg/l	NS	NS										5700		NT																				

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
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K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A
					Sample Name:	MW112A	MW900 (FD)	MW112A	MW901 (FD)	MW112A	MW901 (FD)	MW112A	MW900 (FD)	MW112A	MW900 (FD)	MW112A	MW900 (FD)	MW112A	MW900 (FD)	MW112A	MW900 (FD)	MW112A	MW900 (FD)	MW112A	MW900 (FD)	MW112A	MW112A	MW112A	MW900 (FD)	MW112A	MW112A	MW112A	MW901 (FD)
					Well Screen Interval (ft bgs):	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19
					Sample Date:	1/12/09	1/12/09	4/13/09	4/13/09	7/14/09	7/14/09	10/14/09	10/14/09	4/12/10	4/12/10	10/27/10	4/20/11	4/20/11	11/16/11	4/16/12	4/16/12	11/12/12	4/24/13	4/24/13	11/18/13	6/11/14	11/18/14	4/17/15	4/17/15	4/28/16	11/21/16	4/18/17	4/18/2017
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT						
TPH-DRO																																
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT		NT	NT		NT	NT		NT	NT		NT	NT		NT		NT		NT	NT
Arsenic			NS	900									NT			NT			NT			NT			NT		NT		NT		
Iron			NS	NS									< 0.10 J+			NT			< 100			14200			NT		NT		NT		
Manganese			NS	NS									875			1570			954			1610			1470		909		1530		627	
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																												
Others					NT	NT	NT	NT	NT	NT	NT	NT		NT	NT		NT	NT		NT	NT		NT	NT		NT		NT		NT	NT
Methane	8015	µg/l	NS	NS									0.18 J B			< 0.30			0.66			0.10 J			< 10		< 10		< 10		<10	
Ethane	8015	µg/l	NS	NS									< 0.10			< 0.10			< 0.10			< 0.10			< 10		< 10		< 10		<10	
Ethylene	8015	µg/l	NS	NS									< 0.10			< 0.10			< 0.10			< 0.10			< 10		< 10		< 10		<10	
Alkalinity	E310.1	µg/l*	NS	NS									233000			252000			245000			278000			285000		266000		332000		339000	
Chloride	E325.3	µg/l	NS	NS									810000			915000			655000			857000			815000		700000		700000		439000	
Chlorine, Total Residual	E330.4	µg/l											< 50 A			< 50			< 50 A			< 50 A F- J			< 50 A							
Iron, Ferrous	3500FE B	µg/l	NS	NS									NT			NT			NT			NT			< 100		< 100		< 100		<100	
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS									4700			3500			2600			1300			650		1200		490		620	
Nitrogen, Nitrate	E353.2	µg/l	NS	NS									4700			3500			2600			1300			650		1200		490		620	
Nitrogen, Nitrite	E354.1	µg/l	NS	NS									11			< 10			< 10			< 10			< 10		< 10		< 10		<10	
Sodium	6010C	µg/l	NS	NS									NT			NT			NT			NT			NT		NT		NT		NT	
Sulfate	E375.4	µg/l	NS	NS									57100			52200			66100			68000			90900		63100		117000		71000	
Sulfide	E376.1	µg/l											< 2000			< 2000			< 2000			< 2000			< 2000							
Surfactants	E425.1	µg/l	NS	NS									< 100			< 100			< 100			< 100			< 100		< 100		< 100		<100	
Total Organic Carbon	E415.1	µg/l	NS	NS									1200			1100			< 1000			1500			< 1000		< 5000		< 1000		<1000	

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW-115/115R	MW-115/115R	MW-115/115R	MW116	MW116	MW116	MW116	MW116
					Sample Name:	MW112A 4 to 19 11/10/2017 GEI	MW112A 4 to 19 4/4/2018 GEI	MW112A 4 to 19 11/15/2018 GEI	MW112A 4 to 19 4/15/2019 GEI	MW112A 4 to 19 11/22/2019 GEI	MW112A 4 to 19 4/16/2020 GEI	MW112A 4 to 19 11/18/2020 GEI	MW112A 4 to 19 4/13/2021 GEI	MW112A 4 to 19 11/30/2021 GEI	MW112A 4 to 19 4/14/2022 GEI	MW112A 4 to 19 11/29/2022 GEI	MW112A 4 to 19 5/11/2023 GEI	MW112A 4 to 19 11/7/2023 GEI	MW112A 4 to 19 4/2/2024 GEI	MW112A 4 to 19 11/14/2024 GEI	MW112A 4 to 19 4/25/2025 GEI	MW112A 4 to 19 11/13/2025 GEI	MW-115/115R 10 to 25 1/20/25 GEI	MW-115/115R 10 to 25 4/22/25 GEI	MW-115/115R 10 to 25 11/13/25 GEI	MW116 5 to 15 3/23/07 GEI	MW116 5 to 15 4/16/07 GEI	MW116 5 to 15 7/18/07 GEI	MW901 (FD) 5 to 15 7/18/07 GEI	MW116 5 to 15 10/12/07 GEI
					Well Screen Interval (ft bgs):																										
					Sample Date:																										
					Collected By:																										
Total Petroleum Hydrocarbons (TPH)				mg/L															NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																														
Metals (Total)	6010B	µg/l			NT		NT		NT		NT		NT		NT	NT	NT						NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900		NT		NT		NT		NT		NT				NT	NT	NT	NT									
Iron			NS	NS		NT		NT		NT		NT		NT				NT	NT	NT	NT									
Manganese			NS	NS		2620		3360		2600		2550		635				2020	2020	1480	2260									
Metals (Dissolved)	6010C	µg/l			NT	NT	NT		NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS				NT		NT																				
Others					NT		NT		NT		NT		NT	NT	NT		NT		NT				NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS		320		6.7		17.6		5.88		2.11		3.94		4.64		5.31	13									
Ethane	8015	µg/l	NS	NS		12.2		<0.23		<0.500		<0.500		<0.500		<0.500		<3		<3.0	<5.2									
Ethylene	8015	µg/l	NS	NS		<0.31		<0.31		<0.500		<0.500		<0.500		<0.500		3.91		<3.0	<6.5									
Alkalinity	E310.1	µg/l*	NS	NS		247000		259000		248000		234000		265000		249000		245000		246	235									
Chloride	E325.3	µg/l	NS	NS		170000		517000		440000		540000		410000		560000		640000		490000	440000									
Chlorine, Total Residual	E330.4	µg/l				280		<100		<20		<20		<20		<20		<20			<200									
Iron, Ferrous	3500FE B	µg/l	NS	NS		<200		<200		<500		<500		<500		<500		<500		<500	<500									
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS		<100		490		330		240		<380		<100		210		360	3000									
Nitrogen, Nitrate	E353.2	µg/l	NS	NS		<110		480		334		217		<371		<100		207		307	2960									
Nitrogen, Nitrite	E354.1	µg/l	NS	NS		<10		<10		<300		<300		<300		423		<300		326	1300									
Sodium	6010C	µg/l	NS	NS		NT		NT		NT		NT		NT		NT		NT		NT	NT									
Sulfate	E375.4	µg/l	NS	NS		59200		551000		50000		50000		60000		44000		78000		71000	620000									
Sulfide	E376.1	µg/l				<200		<200		<100		<100		<100		<50		<50			NT									
Surfactants	E425.1	µg/l	NS	NS		<100		<100		<50		<50		<50		70		<50		<50	<50									
Total Organic Carbon	E415.1	µg/l	NS	NS		1700		<1000		750		700		750		2600		<500		<500	<500									

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:
B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116
					Sample Name:	MW901 (FD)	MW116	MW901 (FD)	MW116	MW901 (FD)	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW901 (FD)	MW116	MW901 (FD)	MW116	MW901 (FD)	MW116	MW116	MW901 (FD)	MW116	MW900 (FD)	MW116	MW900 (FD)	MW116	MW900 (FD)	MW116	MW900 (FD)	MW116
					Well Screen Interval (ft bgs):	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15
					Sample Date:	10/12/07	1/11/08	1/11/08	4/15/08	4/15/08	7/16/08	10/21/08	1/14/09	4/15/09	7/14/09	10/14/09	4/13/10	4/13/10	4/21/11	4/21/11	4/17/12	4/17/12	4/24/13	4/24/13	5/1/14	5/1/14	4/2/15	4/2/15	4/29/16	4/29/16	4/17/17	4/17/17	4/4/18
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT					
TPH-DRO																																	
Metals (Total)	6010B	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																													
Iron			NS	NS																													
Manganese			NS	NS																													
Metals (Dissolved)	6010C	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																													
Others						NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																													
Ethane	8015	µg/l	NS	NS																													
Ethylene	8015	µg/l	NS	NS																													
Alkalinity	E310.1	µg/l*	NS	NS																													
Chloride	E325.3	µg/l	NS	NS																													
Chlorine, Total Residual	E330.4	µg/l																															
Iron, Ferrous	3500FE B	µg/l	NS	NS																													
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																													
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																													
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																													
Sodium	6010C	µg/l	NS	NS																													
Sulfate	E375.4	µg/l	NS	NS																													
Sulfide	E376.1	µg/l																															
Surfactants	E425.1	µg/l	NS	NS																													
Total Organic Carbon	E415.1	µg/l	NS	NS																													

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:
B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
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K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
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R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D
					Sample Name:	MW900 (FD)	MW116	MW900 (FD)	MW116	MW900 (FD)	MW116	MW900	MW116	MW900	MW116	MW900	MW116	MW900	MW116	MW900	MW116	MW900	MW116	MW900	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D
					Well Screen Interval (ft bgs):	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70
					Sample Date:	4/4/18	4/16/19	4/16/19	4/17/20	4/17/20	4/14/21	4/14/21	4/14/22	4/14/22	4/18/23	4/18/23	4/3/24	4/3/24	4/24/25	4/24/25	11/11/25	11/11/25	7/19/07	10/11/07	1/15/08	4/16/08	7/16/08	10/21/08	1/13/09	4/14/09	7/15/09	10/14/09	4/13/10	4/20/11
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L															NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																																			
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																															
Iron			NS	NS																															
Manganese			NS	NS																															
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																															
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																															
Ethane	8015	µg/l	NS	NS																															
Ethylene	8015	µg/l	NS	NS																															
Alkalinity	E310.1	µg/l*	NS	NS																															
Chloride	E325.3	µg/l	NS	NS																															
Chlorine, Total Residual	E330.4	µg/l																																	
Iron, Ferrous	3500FE B	µg/l	NS	NS																															
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																															
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																															
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																															
Sodium	6010C	µg/l	NS	NS																															
Sulfate	E375.4	µg/l	NS	NS																															
Sulfide	E376.1	µg/l																																	
Surfactants	E425.1	µg/l	NS	NS																															
Total Organic Carbon	E415.1	µg/l	NS	NS																															

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Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117S	MW117S	MW117S	MW117S	MW117S	MW117S	MW117S	MW117S	MW117S	MW117S	MW117S	MW117S	MW117S	MW117S
					Sample Name:	MW117D 60 to 70 4/16/12 GEI	MW117D 60 to 70 4/24/13 GEI	MW117D 60 to 70 5/1/14 GEI	MW117D 60 to 70 4/2/15 GEI	MW117D 60 to 70 4/28/16 GEI	MW117D 60 to 70 4/17/17 GEI	MW117D 60 to 70 4/3/18 GEI	MW117D 60 to 70 4/15/19 GEI	MW117D 60 to 70 4/16/20 GEI	MW117D 60 to 70 4/13/21 GEI	MW117D 60 to 70 4/12/22 GEI	MW117D 60 to 70 4/17/23 GEI	MW117D 60 to 70 4/2/24 GEI	MW117D 60 to 70 4/22/25 GEI	MW117D 60 to 70 11/10/25 GEI	MW117S 5 to 20 7/18/07 GEI	MW117S 5 to 20 10/15/07 GEI	MW117S 5 to 20 1/11/08 GEI	MW117S 5 to 20 4/16/08 GEI	MW117S 5 to 20 7/16/08 GEI	MW117S 5 to 20 10/21/08 GEI	MW117S 5 to 20 1/13/09 GEI	MW117S 5 to 20 4/14/09 GEI	MW117S 5 to 20 7/15/09 GEI	MW117S 5 to 20 10/14/09 GEI	MW117S 5 to 20 4/13/10 GEI	MW117S 5 to 20 4/21/11 GEI	MW117S 5 to 20 4/16/12 GEI	MW117S 5 to 20 4/24/13 GEI	MW117S 5 to 20 5/1/14 GEI
					Well Screen Interval (ft bgs):																														
					Sample Date:																														
					Collected By:																														
Total Petroleum Hydrocarbons (TPH)				mg/L		NT	NT	NT	NT										NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																																		
Metals (Total)	6010B	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																														
Iron			NS	NS																														
Manganese			NS	NS																														
Metals (Dissolved)	6010C	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																														
Others						NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																														
Ethane	8015	µg/l	NS	NS																														
Ethylene	8015	µg/l	NS	NS																														
Alkalinity	E310.1	µg/l*	NS	NS																														
Chloride	E325.3	µg/l	NS	NS																														
Chlorine, Total Residual	E330.4	µg/l																																
Iron, Ferrous	3500FE B	µg/l	NS	NS																														
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Nitrogen, Nitrate	E353.2	µg/l	NS	NS																														
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																														
Sodium	6010C	µg/l	NS	NS																														
Sulfate	E375.4	µg/l	NS	NS																														
Sulfide	E376.1	µg/l																																
Surfactants	E425.1	µg/l	NS	NS																														
Total Organic Carbon	E415.1	µg/l	NS	NS																														

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
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Qualifying Notes:
B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
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Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW117S	MW117S	MW117S	MW117S	MW117S	MW117S	MW117S	MW117S	MW117S	MW117S	MW117S	MW117S	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T
					Sample Name:	MW117S 5 to 20 4/2/15 GEI	MW117S 5 to 20 4/27/16 GEI	MW117S 5 to 20 4/17/17 GEI	MW117S 5 to 20 4/3/18 GEI	MW117S 5 to 20 4/15/19 GEI	MW117S 5 to 20 4/16/20 GEI	MW117S 5 to 20 4/13/21 GEI	MW117S 5 to 20 4/12/22 GEI	MW117S 5 to 20 4/17/23 GEI	MW117S 5 to 20 4/2/24 GEI	MW117S 5 to 20 4/22/25 GEI	MW117S 5 to 20 11/10/25 GEI	MW117T 35 to 45 7/19/07 GEI	MW117T 35 to 45 10/11/07 GEI	MW117T 35 to 45 1/15/08 GEI	MW117T 35 to 45 4/16/08 GEI	MW117T 35 to 45 7/16/08 GEI	MW117T 35 to 45 10/21/08 GEI	MW117T 35 to 45 1/13/09 GEI	MW117T 35 to 45 4/14/09 GEI	MW117T 35 to 45 7/15/09 GEI	MW117T 35 to 45 10/16/09 GEI	MW117T 35 to 45 4/13/10 GEI	MW117T 35 to 45 4/21/11 GEI	MW117T 35 to 45 4/16/12 GEI	MW117T 35 to 45 4/23/13 GEI	MW117T 35 to 45 5/1/14 GEI	MW117T 35 to 45 4/2/15 GEI	MW117T 35 to 45 4/27/16 GEI	MW117T 35 to 45 4/17/17 GEI
					Well Screen Interval (ft bgs):																														
					Sample Date:																														
					Collected By:																														
Total Petroleum Hydrocarbons (TPH)				mg/L											NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
TPH-DRO																																		
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																														
Iron			NS	NS																														
Manganese			NS	NS																														
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																														
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																														
Ethane	8015	µg/l	NS	NS																														
Ethylene	8015	µg/l	NS	NS																														
Alkalinity	E310.1	µg/l*	NS	NS																														
Chloride	E325.3	µg/l	NS	NS																														
Chlorine, Total Residual	E330.4	µg/l																																
Iron, Ferrous	3500FE B	µg/l	NS	NS																														
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																														
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																														
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																														
Sodium	6010C	µg/l	NS	NS																														
Sulfate	E375.4	µg/l	NS	NS																														
Sulfide	E376.1	µg/l																																
Surfactants	E425.1	µg/l	NS	NS																														
Total Organic Carbon	E415.1	µg/l	NS	NS																														

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:
B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D
					Sample Name:	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D
					Well Screen Interval (ft bgs):	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80
					Sample Date:	4/3/18	4/15/19	4/16/20	4/13/21	4/12/22	4/17/23	4/2/24	4/22/25	11/10/25	7/20/07	8/30/07	10/11/07	1/16/08	4/16/08	7/16/08	10/21/08	1/14/09	4/14/09	7/15/09	10/14/09	10/14/09	4/12/10	4/20/11	4/16/12	11/12/12	4/24/13	11/18/13	5/1/14	11/18/14	4/2/15
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	FD	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L									NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																																		
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																														
Iron			NS	NS																														
Manganese			NS	NS																														
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																														
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																														
Ethane	8015	µg/l	NS	NS																														
Ethylene	8015	µg/l	NS	NS																														
Alkalinity	E310.1	µg/l*	NS	NS																														
Chloride	E325.3	µg/l	NS	NS																														
Chlorine, Total Residual	E330.4	µg/l																																
Iron, Ferrous	3500FE B	µg/l	NS	NS																														
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																														
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																														
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																														
Sodium	6010C	µg/l	NS	NS																														
Sulfate	E375.4	µg/l	NS	NS																														
Sulfide	E376.1	µg/l																																
Surfactants	E425.1	µg/l	NS	NS																														
Total Organic Carbon	E415.1	µg/l	NS	NS																														

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R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S
					Sample Name:	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S
					Well Screen Interval (ft bgs):	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	71 to 80	71 to 80	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14
					Sample Date:	11/19/15	4/28/16	11/21/16	4/17/2017	11/8/2017	4/3/2018	11/15/2018	4/15/2019	11/22/2019	4/16/2020	11/18/2020	4/13/2021	11/30/2021	4/12/2022	11/29/2022	4/17/2023	11/7/2023	4/2/2024	11/14/2024	4/22/2025	11/10/2025	7/20/07	8/30/07	10/11/07	1/11/08	4/16/08	7/15/08	10/21/08
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L																			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																																	
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																													
Iron			NS	NS																													
Manganese			NS	NS																													
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																													
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																													
Ethane	8015	µg/l	NS	NS																													
Ethylene	8015	µg/l	NS	NS																													
Alkalinity	E310.1	µg/l*	NS	NS																													
Chloride	E325.3	µg/l	NS	NS																													
Chlorine, Total Residual	E330.4	µg/l																															
Iron, Ferrous	3500FE B	µg/l	NS	NS																													
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																													
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																													
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																													
Sodium	6010C	µg/l	NS	NS																													
Sulfate	E375.4	µg/l	NS	NS																													
Sulfide	E376.1	µg/l																															
Surfactants	E425.1	µg/l	NS	NS																													
Total Organic Carbon	E415.1	µg/l	NS	NS																													

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
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7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:
B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
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G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
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R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T
					Sample Name:	MW118S 3 to 14 1/14/09 GEI	MW118S 3 to 14 4/15/09 GEI	MW118S 3 to 14 7/15/09 GEI	MW118S 3 to 14 10/14/09 GEI	MW118S 3 to 14 4/12/10 GEI	MW118S 3 to 14 4/20/11 GEI	MW118S 3 to 14 4/24/13 GEI	MW118S 3 to 14 5/1/14 GEI	MW118S 3 to 14 4/2/15 GEI	MW118S 3 to 14 4/28/16 GEI	MW118S 3 to 14 4/17/17 GEI	MW118S 3 to 14 4/3/18 GEI	MW118S 3 to 14 4/15/19 GEI	MW118S 3 to 14 4/16/20 GEI	MW118S 3 to 14 4/13/21 GEI	MW118S 3 to 14 4/12/22 GEI	MW118S 3 to 14 4/17/23 GEI	MW118S 3 to 14 4/2/24 GEI	MW118S 3 to 14 4/22/25 GEI	MW118S 3 to 14 11/10/25 GEI	MW118T 39.5 to 49.5 7/20/07 GEI	MW118T 39.5 to 49.5 8/30/07 GEI	MW118T 39.5 to 49.5 10/11/07 GEI	MW118T 39.5 to 49.5 1/15/08 GEI	MW118T 39.5 to 49.5 4/16/08 GEI	MW118T 39.5 to 49.5 7/15/08 GEI	MW118T 39.5 to 49.5 10/21/08 GEI	MW118T 39.5 to 49.5 1/14/09 GEI
					Well Screen Interval (ft bgs):	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5
					Sample Date:	1/14/09	4/15/09	7/15/09	10/14/09	4/12/10	4/20/11	4/24/13	5/1/14	4/2/15	4/28/16	4/17/17	4/3/18	4/15/19	4/16/20	4/13/21	4/12/22	4/17/23	4/2/24	4/22/25	11/10/25	7/20/07	8/30/07	10/11/07	1/15/08	4/16/08	7/15/08	10/21/08	1/14/09
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L		NT	NT	NT	NT	NT	NT	NT	NT	NT										NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																																
Metals (Total)	6010B	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																												
Iron			NS	NS																												
Manganese			NS	NS																												
Metals (Dissolved)	6010C	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																												
Others						NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																												
Ethane	8015	µg/l	NS	NS																												
Ethylene	8015	µg/l	NS	NS																												
Alkalinity	E310.1	µg/l*	NS	NS																												
Chloride	E325.3	µg/l	NS	NS																												
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Nitrogen, Nitrate	E353.2	µg/l	NS	NS																												
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																												
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Surfactants	E425.1	µg/l	NS	NS																												
Total Organic Carbon	E415.1	µg/l	NS	NS																												

General Notes:
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Qualifying Notes:
B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
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Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW119S	MW119S	MW119S	MW119S
					Sample Name:	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW119S	MW119S	MW119S	MW119S
					Well Screen Interval (ft bgs):	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	5 to 20	5 to 20	5 to 20	5 to 20
					Sample Date:	4/14/09	7/14/09	10/15/09	4/12/10	4/20/11	4/17/12	4/24/13	5/1/14	4/3/15	4/28/16	4/17/17	4/3/18	4/16/19	4/17/20	4/13/21	4/12/22	4/17/23	4/2/24	4/22/25	11/10/25	8/22/07	10/12/07	1/15/08	4/16/08
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
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Metals (Total)	6010B	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
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Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T
					Sample Name:	MW119S 5 to 20 7/15/08 GEI	MW119S 5 to 20 10/22/08 GEI	MW119S 5 to 20 1/13/09 GEI	MW119S 5 to 20 4/13/09 GEI	MW119S 5 to 20 7/15/09 GEI	MW119S 5 to 20 10/15/09 GEI	MW119S 5 to 20 4/13/10 GEI	MW119S 5 to 20 4/22/11 GEI	MW119S 5 to 20 4/16/12 GEI	MW119S 5 to 20 4/23/13 GEI	MW119S 5 to 20 5/1/14 GEI	MW119S 5 to 20 4/2/15 GEI	MW119S 5 to 20 4/28/16 GEI	MW119S 5 to 20 4/18/17 GEI	MW119S 5 to 20 4/3/18 GEI	MW119S 5 to 20 4/16/19 GEI	MW119S 5 to 20 4/17/20 GEI	MW119S 5 to 20 4/14/21 GEI	MW119S 5 to 20 4/13/22 GEI	MW119S 5 to 20 4/17/23 GEI	MW119S 5 to 20 4/2/24 GEI	MW119S 5 to 20 4/2/24 GEI	MW119S 5 to 20 4/22/25 GEI	MW119S 5 to 20 11/11/25 GEI	MW119T 42 to 47 8/22/07 GEI	MW119T 42 to 47 10/12/07 GEI	MW119T 42 to 47 1/16/08 GEI	MW119T 42 to 47 4/16/08 GEI	MW119T 42 to 47 7/15/08 GEI	MW119T 42 to 47 10/22/08 GEI
					Well Screen Interval (ft bgs):																																	
					Sample Date:																																	
					Collected By:																																	
Total Petroleum Hydrocarbons (TPH)				mg/L		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT										NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																																					
Metals (Total)	6010B	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																																	
Iron			NS	NS																																	
Manganese			NS	NS																																	
Metals (Dissolved)	6010C	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																																	
Others						NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																																	
Ethane	8015	µg/l	NS	NS																																	
Ethylene	8015	µg/l	NS	NS																																	
Alkalinity	E310.1	µg/l*	NS	NS																																	
Chloride	E325.3	µg/l	NS	NS																																	
Chlorine, Total Residual	E330.4	µg/l																																			
Iron, Ferrous	3500FE B	µg/l	NS	NS																																	
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																																	
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																																	
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																																	
Sodium	6010C	µg/l	NS	NS																																	
Sulfate	E375.4	µg/l	NS	NS																																	
Sulfide	E376.1	µg/l																																			
Surfactants	E425.1	µg/l	NS	NS																																	
Total Organic Carbon	E415.1	µg/l	NS	NS																																	

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:
B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D
					Sample Name:	MW119T 42 to 47 1/13/09 GEI	MW119T 42 to 47 4/13/09 GEI	MW119T 42 to 47 7/15/09 GEI	MW119T 42 to 47 10/15/09 GEI	MW119T 42 to 47 4/13/10 GEI	MW119T 42 to 47 4/22/11 GEI	MW119T 42 to 47 4/16/12 GEI	MW119T 42 to 47 4/23/13 GEI	MW119T 42 to 47 5/1/14 GEI	MW119T 42 to 47 4/2/15 GEI	MW119T 42 to 47 4/28/16 GEI	MW119T 42 to 47 4/18/17 GEI	MW119T 42 to 47 4/3/18 GEI	MW119T 42 to 47 4/16/19 GEI	MW119T 42 to 47 4/17/20 GEI	MW119T 42 to 47 4/14/21 GEI	MW119T 42 to 47 4/13/22 GEI	MW119T 42 to 47 4/17/23 GEI	MW119T 42 to 47 4/2/24 GEI	MW119T 42 to 47 4/22/25 GEI	MW119T 42 to 47 11/13/25 GEI	MW120D 28 to 38 8/22/07 GEI	MW120D 28 to 38 10/12/07 GEI	MW120D 28 to 38 1/17/08 GEI	MW1120D 28 to 38 4/16/08 GEI	MW120D 28 to 38 7/15/08 GEI	MW120D 28 to 38 10/22/08 GEI	MW120D 28 to 38 1/13/09 GEI	MW120D 28 to 38 4/14/09 GEI	MW120D 28 to 38 7/15/09 GEI
					Well Screen Interval (ft bgs):																														
					Sample Date:																														
					Collected By:																														
Total Petroleum Hydrocarbons (TPH)				mg/L		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT										NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																																			
Metals (Total)	6010B	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																															
Iron			NS	NS																															
Manganese			NS	NS																															
Metals (Dissolved)	6010C	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																															
Others						NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																															
Ethane	8015	µg/l	NS	NS																															
Ethylene	8015	µg/l	NS	NS																															
Alkalinity	E310.1	µg/l*	NS	NS																															
Chloride	E325.3	µg/l	NS	NS																															
Chlorine, Total Residual	E330.4	µg/l																																	
Iron, Ferrous	3500FE B	µg/l	NS	NS																															
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																															
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																															
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																															
Sodium	6010C	µg/l	NS	NS																															
Sulfate	E375.4	µg/l	NS	NS																															
Sulfide	E376.1	µg/l																																	
Surfactants	E425.1	µg/l	NS	NS																															
Total Organic Carbon	E415.1	µg/l	NS	NS																															

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
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4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
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8. * = micrograms CaCO3 per liter

Qualifying Notes:
B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
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R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120S	MW120S	MW120S	MW1120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S
					Sample Name:	MW120D 28 to 38 10/15/09 GEI	MW120D 28 to 38 4/13/10 GEI	MW120D 28 to 38 4/22/11 GEI	MW120D 28 to 38 4/16/12 GEI	MW120D 28 to 38 4/23/13 GEI	MW120D 28 to 38 5/1/14 GEI	MW120D 28 to 38 4/3/15 GEI	MW120D 28 to 38 4/28/16 GEI	MW120D 28 to 38 4/18/17 GEI	MW120D 28 to 38 4/4/18 GEI	MW120D 28 to 38 4/16/19 GEI	MW120D 28 to 38 4/17/20 GEI	MW120D 28 to 38 4/14/21 GEI	MW120D 28 to 38 4/13/22 GEI	MW120D 28 to 38 4/18/23 GEI	MW120D 28 to 38 4/3/24 GEI	MW120D 28 to 38 4/3/24 GEI	MW120D 28 to 38 4/22/25 GEI	MW120D 28 to 38 11/11/25 GEI	MW120S 5 to 20 8/22/07 GEI	MW120S 5 to 20 10/12/07 GEI	MW120S 5 to 20 1/15/08 GEI	MW1120S 5 to 20 4/16/08 GEI	MW120S 5 to 20 7/15/08 GEI	MW120S 5 to 20 10/22/08 GEI	MW120S 5 to 20 1/13/09 GEI	MW120S 5 to 20 4/14/09 GEI	MW120S 5 to 20 7/15/09 GEI	MW120S 5 to 20 10/15/09 GEI	MW120S 5 to 20 4/13/10 GEI
					Well Screen Interval (ft bgs):																														
					Sample Date:																														
					Collected By:																														
Total Petroleum Hydrocarbons (TPH)				mg/L		NT	NT	NT	NT	NT	NT	NT									NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																																			
Metals (Total)	6010B	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																															
Iron			NS	NS																															
Manganese			NS	NS																															
Metals (Dissolved)	6010C	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																															
Others						NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																															
Ethane	8015	µg/l	NS	NS																															
Ethylene	8015	µg/l	NS	NS																															
Alkalinity	E310.1	µg/l*	NS	NS																															
Chloride	E325.3	µg/l	NS	NS																															
Chlorine, Total Residual	E330.4	µg/l																																	
Iron, Ferrous	3500FE B	µg/l	NS	NS																															
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																															
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																															
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																															
Sodium	6010C	µg/l	NS	NS																															
Sulfate	E375.4	µg/l	NS	NS																															
Sulfide	E376.1	µg/l																																	
Surfactants	E425.1	µg/l	NS	NS																															
Total Organic Carbon	E415.1	µg/l	NS	NS																															

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
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Qualifying Notes:
B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
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R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	Sample Name:	Well Screen Interval (ft bgs):	Sample Date:	Collected By:
					MW120S	MW120S 5 to 20 4/22/11	5 to 20	4/22/11	GEI
					MW120S	MW120S 5 to 20 4/16/12	5 to 20	4/16/12	GEI
					MW120S	MW120S 5 to 20 4/23/13	5 to 20	4/23/13	GEI
					MW120S	MW120S 5 to 20 5/1/14	5 to 20	5/1/14	GEI
					MW120S	MW120S 5 to 20 4/3/15	5 to 20	4/3/15	GEI
					MW120S	MW120S 5 to 20 4/28/16	5 to 20	4/28/16	GEI
					MW120S	MW120S 5 to 20 4/18/17	5 to 20	4/18/17	GEI
					MW120S	MW120S 5 to 20 4/4/18	5 to 20	4/4/18	GEI
					MW120S	MW120S 5 to 20 4/16/19	5 to 20	4/16/19	GEI
					MW120S	MW120S 5 to 20 4/17/20	5 to 20	4/17/20	GEI
					MW120S	MW120S 5 to 20 4/14/21	5 to 20	4/14/21	GEI
					MW120S	MW120S 5 to 20 4/13/22	5 to 20	4/13/22	GEI
					MW120S	MW120S 5 to 20 4/18/23	5 to 20	4/18/23	GEI
					MW120S	MW120S 5 to 20 4/2/24	5 to 20	4/2/24	GEI
					MW120S	MW120S 5 to 20 4/22/25	5 to 20	4/22/25	GEI
					MW120S	MW120S 5 to 20 11/11/25	5 to 20	11/11/25	GEI
					MW121D	MW121D 32.1 to 47.1 10/22/07	32.1 to 47.1	10/22/07	GEI
					MW121D	MW121D 32.1 to 47.1 1/15/08	32.1 to 47.1	1/15/08	GEI
					MW121D	MW121D 32.1 to 47.1 4/17/08	32.1 to 47.1	4/17/08	GEI
					MW121D	MW121D 32.1 to 47.1 7/14/08	32.1 to 47.1	7/14/08	GEI
					MW121D	MW901 32.1 to 47.1 7/14/08	32.1 to 47.1	7/14/08	GEI
					MW121D	MW121D 32.1 to 47.1 10/22/08	32.1 to 47.1	10/22/08	GEI
					MW121D	MW900 (FD) 32.1 to 47.1 10/22/08	32.1 to 47.1	10/22/08	GEI
					MW121D	MW121D 32.1 to 47.1 1/12/09	32.1 to 47.1	1/12/09	GEI
					MW121D	MW901 (FD) 32.1 to 47.1 1/12/09	32.1 to 47.1	1/12/09	GEI
					MW121D	MW121D 32.1 to 47.1 4/13/09	32.1 to 47.1	4/13/09	GEI
					MW121D	MW900 (FD) 32.1 to 47.1 4/13/09	32.1 to 47.1	4/13/09	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L	NT	NT	NT	NT	NT									NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																													
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																									
Iron			NS	NS																									
Manganese			NS	NS																									
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																									
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																									
Ethane	8015	µg/l	NS	NS																									
Ethylene	8015	µg/l	NS	NS																									
Alkalinity	E310.1	µg/l*	NS	NS																									
Chloride	E325.3	µg/l	NS	NS																									
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Iron, Ferrous	3500FE B	µg/l	NS	NS																									
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																									
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																									
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																									
Sodium	6010C	µg/l	NS	NS																									
Sulfate	E375.4	µg/l	NS	NS																									
Sulfide	E376.1	µg/l																											
Surfactants	E425.1	µg/l	NS	NS																									
Total Organic Carbon	E415.1	µg/l	NS	NS																									

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Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D
					Sample Name:	MW121D	MW900 (FD)	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D
					Well Screen Interval (ft bgs):	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1
					Sample Date:	7/14/09	7/14/09	10/14/09	4/12/10	4/20/11	4/16/12	11/12/12	4/23/13	11/18/13	4/30/14	11/18/14	4/2/15	11/19/15	4/28/16	11/21/16	4/17/17	11/8/17	4/3/18	11/15/18	4/15/19	11/22/19	4/16/20	11/18/20
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT											
TPH-DRO																											
Metals (Total)	6010B	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																							
Iron			NS	NS																							
Manganese			NS	NS																							
Metals (Dissolved)	6010C	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																							
Others						NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																							
Ethane	8015	µg/l	NS	NS																							
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Nitrogen, Nitrate	E353.2	µg/l	NS	NS																							
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																							
Sodium	6010C	µg/l	NS	NS																							
Sulfate	E375.4	µg/l	NS	NS																							
Sulfide	E376.1	µg/l																									
Surfactants	E425.1	µg/l	NS	NS																							
Total Organic Carbon	E415.1	µg/l	NS	NS																							

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:
B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S
					Sample Name:	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S
					Well Screen Interval (ft bgs):	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20
					Sample Date:	4/13/21	11/30/21	4/13/22	11/29/22	4/18/23	11/7/23	4/3/24	11/14/24	4/23/25	11/11/25	10/22/07	1/15/08	4/17/08	7/14/08	10/22/08	1/12/09	4/13/09	7/14/09	10/14/09	4/12/10	4/20/11	4/16/12	4/23/13	4/30/14	4/2/15	4/28/16	4/17/17
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L									NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT			
TPH-DRO																																
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																												
Iron			NS	NS																												
Manganese			NS	NS																												
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																												
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																												
Ethane	8015	µg/l	NS	NS																												
Ethylene	8015	µg/l	NS	NS																												
Alkalinity	E310.1	µg/l*	NS	NS																												
Chloride	E325.3	µg/l	NS	NS																												
Chlorine, Total Residual	E330.4	µg/l																														
Iron, Ferrous	3500FE B	µg/l	NS	NS																												
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																												
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																												
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																												
Sodium	6010C	µg/l	NS	NS																												
Sulfate	E375.4	µg/l	NS	NS																												
Sulfide	E376.1	µg/l																														
Surfactants	E425.1	µg/l	NS	NS																												
Total Organic Carbon	E415.1	µg/l	NS	NS																												

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	Sample Name:	Well Screen Interval (ft bgs):	Sample Date:	Collected By:
					MW121S	MW121S	5 to 20	4/3/18	GEI
					MW121S	MW121S	5 to 20	4/15/19	GEI
					MW121S	MW121S	5 to 20	4/16/20	GEI
					MW121S	MW121S	5 to 20	4/13/21	GEI
					MW121S	MW121S	5 to 20	4/13/22	GEI
					MW121S	MW121S	5 to 20	4/13/22	GEI
					MW121S	MW121S	5 to 20	4/3/24	GEI
					MW121S	MW121S	5 to 20	4/23/25	GEI
					MW121S	MW121S	5 to 20	11/11/25	GEI
					MW122	MW122	4 to 16	1/30/08	GEI
					MW122	MW122	4 to 16	4/17/08	GEI
					MW122	MW122	4 to 16	7/14/08	GEI
					MW122	MW122	4 to 16	10/22/08	GEI
					MW122	MW122	4 to 16	1/12/09	GEI
					MW122	MW122	4 to 16	4/13/09	GEI
					MW122	MW122	4 to 16	7/15/09	GEI
					MW122	MW122	4 to 16	10/14/09	GEI
					MW122	MW122	4 to 16	4/12/10	GEI
					MW122	MW122	4 to 16	10/27/10	GEI
					MW122	MW122	4 to 16	4/20/11	GEI
					MW122	MW122	4 to 16	11/16/11	GEI
					MW122	MW122	4 to 16	4/17/12	GEI
					MW122	MW122	4 to 16	11/12/12	GEI
					MW122	MW122	4 to 16	4/23/13	GEI
					MW122	MW122	4 to 16	11/18/13	GEI
					MW122	MW122	4 to 16	4/30/14	GEI
					MW122	MW122	4 to 16	11/18/14	GEI
					MW122	MW122	4 to 16	4/2/15	GEI
					MW122	MW122	4 to 16	11/19/15	GEI
					MW122	MW122	4 to 16	4/28/16	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L					
TPH-DRO								NT	NT
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT
Arsenic			NS	900					
Iron			NS	NS					
Manganese			NS	NS					
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT
Iron			NS	NS					
Others					NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS					
Ethane	8015	µg/l	NS	NS					
Ethylene	8015	µg/l	NS	NS					
Alkalinity	E310.1	µg/l*	NS	NS					
Chloride	E325.3	µg/l	NS	NS					
Chlorine, Total Residual	E330.4	µg/l							
Iron, Ferrous	3500FE B	µg/l	NS	NS					
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS					
Nitrogen, Nitrate	E353.2	µg/l	NS	NS					
Nitrogen, Nitrite	E354.1	µg/l	NS	NS					
Sodium	6010C	µg/l	NS	NS					
Sulfate	E375.4	µg/l	NS	NS					
Sulfide	E376.1	µg/l							
Surfactants	E425.1	µg/l	NS	NS					
Total Organic Carbon	E415.1	µg/l	NS	NS					

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	Sample Name:	Well Screen Interval (ft bgs):	Sample Date:	Collected By:
					MW122	MW122	4 to 16	4/30/14	GEI
					MW122	MW122	4 to 16	11/18/14	GEI
					MW122	MW122	4 to 16	4/2/15	GEI
					MW122	MW122	4 to 16	11/19/15	GEI
					MW122	MW122	4 to 16	4/28/16	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L					
TPH-DRO									
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT
Arsenic			NS	900					
Iron			NS	NS					
Manganese			NS	NS					
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT
Iron			NS	NS					
Others					NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS					
Ethane	8015	µg/l	NS	NS					
Ethylene	8015	µg/l	NS	NS					
Alkalinity	E310.1	µg/l*	NS	NS					
Chloride	E325.3	µg/l	NS	NS					
Chlorine, Total Residual	E330.4	µg/l							
Iron, Ferrous	3500FE B	µg/l	NS	NS					
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS					
Nitrogen, Nitrate	E353.2	µg/l	NS	NS					
Nitrogen, Nitrite	E354.1	µg/l	NS	NS					
Sodium	6010C	µg/l	NS	NS					
Sulfate	E375.4	µg/l	NS	NS					
Sulfide	E376.1	µg/l							
Surfactants	E425.1	µg/l	NS	NS					
Total Organic Carbon	E415.1	µg/l	NS	NS					

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:
B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	Sample Name:	Well Screen Interval (ft bgs):	Sample Date:	Collected By:
					MW122	MW122	MW122	MW122	GEI
					MW122	MW122	MW122	MW122	GEI
					MW122	MW122	MW122	MW122	GEI
					MW122	MW122	MW122	MW122	GEI
					MW122	MW122	MW122	MW122	GEI
					MW122	MW122	MW122	MW122	GEI
					MW122	MW122	MW122	MW122	GEI
					MW122	MW122	MW122	MW122	GEI
					MW122	MW122	MW122	MW122	GEI
					MW122	MW122	MW122	MW122	GEI
					MW122	MW122	MW122	MW122	GEI
					MW122	MW122	MW122	MW122	GEI
					MW122	MW122	MW122	MW122	GEI
					MW122	MW122	MW122	MW122	GEI
					MW122	MW122	MW122	MW122	GEI
					MW122	MW122	MW122	MW122	GEI
					MW122	MW122	MW122	MW122	GEI
					MW122	MW122	MW122	MW122	GEI
					MW201	MW201	MW201	MW201	GEI
					MW201	MW201	MW201	MW201	GEI
					MW201	MW201	MW201	MW201	GEI
					MW201	MW201	MW201	MW201	GEI
					MW201	MW201	MW201	MW201	GEI
					MW201	MW201	MW201	MW201	GEI
					MW201	MW201	MW201	MW201	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L					
TPH-DRO									
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																													
Iron			NS	NS																													
Manganese			NS	NS																													
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																													
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																													
Ethane	8015	µg/l	NS	NS																													
Ethylene	8015	µg/l	NS	NS																													
Alkalinity	E310.1	µg/l*	NS	NS																													
Chloride	E325.3	µg/l	NS	NS																													
Chlorine, Total Residual	E330.4	µg/l																															
Iron, Ferrous	3500FE B	µg/l	NS	NS																													
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																													
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																													
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																													
Sodium	6010C	µg/l	NS	NS																													
Sulfate	E375.4	µg/l	NS	NS																													
Sulfide	E376.1	µg/l																															
Surfactants	E425.1	µg/l	NS	NS																													
Total Organic Carbon	E415.1	µg/l	NS	NS																													

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
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5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
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Qualifying Notes:
B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
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G The result is estimated due to duplicate precision outside control limits.
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K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202
					Sample Name:	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202
					Well Screen Interval (ft bgs):	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5
					Sample Date:	7/19/07	10/12/07	1/11/08	4/15/08	7/15/08	10/21/08	1/13/09	4/15/09	7/14/09	10/14/09	4/12/10	4/22/11	4/17/12	4/23/13	5/1/14	4/2/15	4/29/16	4/17/17	4/4/18	4/16/19	4/17/20	4/14/21	4/13/22	4/18/23
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT								
TPH-DRO																												
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																								
Iron			NS	NS																								
Manganese			NS	NS																								
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																								
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																								
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Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW202	MW202	MW202	MW203	MW203	MW203R	MW203R	MW203R	MW-3	MW-3	MW-3	MW-3	MW3	MW3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-301	MW-301	MW-301	MW401D	MW401S	MW402	MW403	MW404	MW404
					Sample Name:	MW202	MW202	MW202	MW203	MW203	MW203R	MW203R	MW203R	MW-3	MW-3	MW-3	MW-3	MW3	MW3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-301	MW-301	MW-301	MW-401D	MW401S	MW402	MW403	MW404	MW902
					Well Screen Interval (ft bgs):	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	6 to 18	6 to 18	13 to 23	13 to 23	13 to 23	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	5-15	5-15	5-15	34-44	4 to 16	20-30	80-90	72.4-82.5	72.5-82.5
					Sample Date:	4/3/24	4/23/25	11/12/25	7/19/07	4/15/08	4/4/24	4/24/25	11/10/25	7/1/02	8/9/04	5/23/06	1/17/07	4/17/07	4/15/08	7/15/08	10/21/08	1/14/09	4/14/09	7/15/09	10/16/09	1/20/25	4/23/25	11/11/25	11/13/25	11/13/2025	11/11/25	11/11/25	11/12/25	11/12/25
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	SHA	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L																														
TPH-DRO						NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																														
Iron			NS	NS																														
Manganese			NS	NS																														
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																														
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																														
Ethane	8015	µg/l	NS	NS																														
Ethylene	8015	µg/l	NS	NS																														
Alkalinity	E310.1	µg/l*	NS	NS																														
Chloride	E325.3	µg/l	NS	NS																														
Chlorine, Total Residual	E330.4	µg/l																																
Iron, Ferrous	3500FE B	µg/l	NS	NS																														
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																														
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																														
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																														
Sodium	6010C	µg/l	NS	NS																														
Sulfate	E375.4	µg/l	NS	NS																														
Sulfide	E376.1	µg/l																																
Surfactants	E425.1	µg/l	NS	NS																														
Total Organic Carbon	E415.1	µg/l	NS	NS																														

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:
B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW405	MW406	MW407	MW-CS1	SH-1	SH-3	SH-4	SH-MW1	SH-MW-1	SH-MW-1	SH-MW1	SHMW1	SH-MW2	SH-MW2	SH-MW-2	SH-MW-2	SH-MW2	SHMW2	SH-MW2	SH-MW2	SH-MW2	SH-MW2	SH-MW2R	SH-MW2R	SH-MW2R	SH-MW3	SH-MW-3	SH-MW-3	SH-MW3
					Sample Name:	MW405	MW406	MW407	MW-CS1	SH-1	SH-3	SH-4	SH-MW1	SH-MW-1	SH-MW-1	SH-MW1	SHMW1	SH-MW2	SH-MW2	SH-MW-2	SH-MW-2	SH-MW2	SHMW2	SH-MW2	SH-MW2	SH-MW2	SH-MW2	SH-MW2R	SH-MW2R	SH-MW2R	SH-MW3	SH-MW-3	SH-MW-3	SH-MW3
					Well Screen Interval (ft bgs):	8-18	4-14	4.45-14.45	Unknown	9 to 14	8 to 13	11 to 16	10 to 30	10 to 30	10 to 30	10 to 30	10 to 30	10 to 25	10 to 25	10 to 25	10 to 25	10 to 25	10 to 25	10 to 25	10 to 25	10 to 25	10 to 25	10 to 23	10 to 23	10 to 23	10 to 23	10 to 24	10 to 24	10 to 24	10 to 24
					Sample Date:	11/10/25	11/10/25	1/7/26	5/23/07	8/9/04	8/9/04	5/25/06	7/8/02	5/23/06	10/4/06	1/16/07	4/12/07	7/8/02	8/16/04	5/23/06	10/4/06	1/16/07	4/16/07	7/19/07	4/28/17	4/4/18	4/16/19	4/3/24	4/24/25	11/12/25	7/8/02	5/23/06	10/4/06	1/17/07
					Collected By:	GEI	GEI	GEI	GEI	GeoInsight	GeoInsight	GEI	SHA	GEI	GEI	GEI	GEI	SHA	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	SHA	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																																	
Metals (Total)	6010B	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	
Arsenic			NS	900																					NT							< 10
Iron			NS	NS																					NT							255
Manganese			NS	NS																					<15							NT
Metals (Dissolved)	6010C	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																													
Others						NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	
Methane	8015	µg/l	NS	NS					NT																0.21							< 10
Ethane	8015	µg/l	NS	NS					NT																<0.23							< 10
Ethylene	8015	µg/l	NS	NS					NT																<0.31							< 10
Alkalinity	E310.1	µg/l*	NS	NS					NT																143000							208000
Chloride	E325.3	µg/l	NS	NS					275000																38600							362000
Chlorine, Total Residual	E330.4	µg/l							< 50																<100							NT
Iron, Ferrous	3500FE B	µg/l	NS	NS					NT																<200							NT
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS					NT																2600							1900
Nitrogen, Nitrate	E353.2	µg/l	NS	NS					NT																2600							1900
Nitrogen, Nitrite	E354.1	µg/l	NS	NS					NT																<10							30
Sodium	6010C	µg/l	NS	NS					NT																NT							NT
Sulfate	E375.4	µg/l	NS	NS					NT																62900							62600
Sulfide	E376.1	µg/l							NT																<2000							< 2000
Surfactants	E425.1	µg/l	NS	NS					NT																<100							< 100
Total Organic Carbon	E415.1	µg/l	NS	NS					NT																1900							< 1000

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:
B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-5. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location: SHMW3 / Sample Name: SHMW3 10 to 24 4/12/07 GEI	SHMW3 / SHMW3 10 to 24 4/15/08 GEI	SHMW3 / SHMW3 10 to 24 4/13/10 GEI	SHMW3 / SHMW3 10 to 24 4/21/11 GEI	SH-MW3 / SH-MW3 10 to 24 4/16/12 GEI	SH-MW3 / SH-MW3 10 to 24 4/23/13 GEI	SH-MW3 / SH-MW3 10 to 24 4/30/14 GEI	SH-MW3 / SH-MW3 10 to 24 4/2/15 GEI	COBBLE-IR-1 / COBBLE-IR-1 Unknown 6/25/07 GEI
Total Petroleum Hydrocarbons (TPH)				mg/L	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO													
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900									
Iron			NS	NS									
Manganese			NS	NS									
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS									
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS									
Ethane	8015	µg/l	NS	NS									
Ethylene	8015	µg/l	NS	NS									
Alkalinity	E310.1	µg/l*	NS	NS									
Chloride	E325.3	µg/l	NS	NS									
Chlorine, Total Residual	E330.4	µg/l											
Iron, Ferrous	3500FE B	µg/l	NS	NS									
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS									
Nitrogen, Nitrate	E353.2	µg/l	NS	NS									
Nitrogen, Nitrite	E354.1	µg/l	NS	NS									
Sodium	6010C	µg/l	NS	NS									
Sulfate	E375.4	µg/l	NS	NS									
Sulfide	E376.1	µg/l											
Surfactants	E425.1	µg/l	NS	NS									
Total Organic Carbon	E415.1	µg/l	NS	NS									

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:
B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-6. Chemical Testing Results - GLX Groundwater Sampling
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	KE-114		KE-115		KE-116		KE-117			MW-5R	WashSW[b]	KE-202D	KE-202S	KE-204	KE-205	KE-206	KE-207	KE-208	KE209	KE-210	GLC-WASH-MW-4	GLC-WASH-MW-2
		Sample Name:	KE-114	KE-114	KE-115	KE-115	KE-116	KE-116	KE-117	KE-117[a]	KE-117	MW-5R	WashSW[b]	KE-202D	KE-202S	KE-204	KE-205	KE-206	KE-207	KE-208	KE209	KE-210	GLC-WASH-MW-4-082520	GLC-WASH-MW-2-082520
		Well Screen Interval (ft bgs):	5 to 30	5 to 30	5 to 30	5 to 30	5 to 30	5 to 30	5 to 20	5 to 20	5 to 20	5 to 30	Vac-Ex	~25 to 35	5 to 20	15 to 25	9.5 to 19.5	10 to 21	8 to 18	4 to 14	9 to 19	8.5 to 18.5	15-30	15-30
		Sample Date:	9/27/12	2/6/14	9/27/12	2/6/14	9/27/12	2/6/14	9/27/12	2/6/14	4/9/14	2/6/14	2/6/14	4/8/14	4/8/14	4/14/14	4/15/14	4/14/14	4/15/14	4/14/14	4/15/14	4/15/14	8/25/20	8/25/20
		Collected By:	Kleinfelder	Kleinfelder	Kleinfelder	Kleinfelder	Kleinfelder	Kleinfelder	Kleinfelder	Kleinfelder	Kleinfelder	Kleinfelder	Kleinfelder	Kleinfelder	Kleinfelder	Kleinfelder	Kleinfelder	Kleinfelder	Kleinfelder	Kleinfelder	Kleinfelder	Kleinfelder	TRC	TRC
Analyte	**Method**	**Units**																						
Volatile Organic Compounds (VOCs)	SW-846 8260C	µg/l																						
Acetone			< 10	< 10	< 10	< 10	< 10	< 10	56	< 10	< 20	< 10	< 10	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	NT	NT
Benzene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	3.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	NT
Carbon disulfide			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	73	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	NT
1,1-Dichloroethane			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	12	< 1.0	< 1.0	4.4	< 1.0	< 1.0	3.4	< 1.0	6.0	< 1.0	< 1.0	< 1.0	1000	NT	NT
1,1-Dichloroethylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	8.0	< 1.0	< 1.0	1.8	< 1.0	< 1.0	2.6	< 1.0	4.6	< 1.0	< 1.0	< 1.0	790	NT	NT
cis-1,2-Dichloroethylene			< 1.0	< 1.0	1.8	1.0	< 1.0	< 1.0	< 5.0	410	2.8	< 1.0	26	12	< 0.40	83	< 1.0	89	< 1.0	1.2	< 1.0	8.4	<1.0	<1.0
Ethylbenzene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	7.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	NT
Methyl tert-butyl ether			< 1.0	< 1.0	1.4	2.4	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	71	NT	NT
Tetrachloroethylene (PCE)			< 1.0	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	760	4.3	< 1.0	2000	33	< 1.0	14000	1.0	12000	2.5	73	< 1.0	14000	11	11
Tetrahydrofuran			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 2.0	3.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	NT
Toluene			< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	2.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	NT
1,1,1-Trichloroethane (TCA)			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	11	< 1.0	< 1.0	13	< 1.0	< 1.0	16	< 1.0	35.0	< 1.0	< 1.0	< 1.0	860	NT	NT
1,1,2-Trichloroethane			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.8	NT	NT
Trichloroethylene (TCE)			< 1.0	< 1.0	1.2	< 1.0	< 1.0	< 1.0	< 5.0	150	1.2	< 1.0	38	5.0	< 1.0	81.0	< 1.0	86.0	< 1.0	2.0	< 1.0	24000	1.6	<1.0
1,2,4-Trimethylbenzene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	NT
Vinyl chloride			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	19	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.6	<1.0	<1.0
m,p-Xylene			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 2.0	37	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	NT
o-Xylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 2.0	< 1.0	19	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	NT

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "<" = The analyte was not detected at a concentration above the specified reporting limit.

Footnote:

(a) The groundwater sample from KE-117 on February 6, 2014 was collected during overpumping of the well to simulate construction dewatering conditions and was not collected via low flow sampling techniques.

(b) WashSW was a grab sample collected from the base of an open excavation within Washington Street.

Table 5-1 - Chemical Testing Results - Sub-Slab Soil Vapor (11 Morton Street)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:			11 Morton Street											
EPMM (Vent) Status:			NA (pre-installation)				Vent Open				Vent Open			
Sample Name:			11 MORT-SS1		11 MORT-SS2		11-MORT-SV1		11-MORT-SV2		11-MORT-SV1		11-MORT-SV2	
Sample Date:			3/21/2007		3/21/2007		7/16/2025		7/16/2025		8/21/2025		8/21/2025	
Units:			ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values (µg/m^3)**												
Volatile Organic Compounds (VOCs)	TO-15													
1,1,1-Trichloroethane (TCA)		210	8.2	1.5	<1.1	<0.20	0.267	0.049	0.136	0.025	0.366	0.067	0.256	0.047
1,1-Dichloroethane		56	0.85	0.21	<0.81	<0.20	<0.081	<0.020	<0.081	<0.020	<0.081	<0.020	<0.081	<0.020
1,1-Dichloroethylene		56	1.2	0.31	<0.79	<0.20	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020
Tetrachloroethylene (PCE)		98	403	59.5	1.6	0.23	1.57	0.232	21.0	3.10	1.27	0.188	20.0	2.95
Trichloroethylene (TCE)		28	9.7	1.8	<1.1	<0.20	0.500	0.093	1.55	0.289	0.124	0.023	0.736	0.137
Vinyl Chloride		19	<0.51	<0.20	<0.51	<0.20	0.151	0.059	0.138	0.054	<0.051	<0.020	<0.051	<0.020

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. MassDEP = Massachusetts Department of Environmental Protection
6. EPMM = Exposure Pathway Mitigation Measure.
7. NA = Not applicable
8. Highlighted sample indicates most recent sampling rounds.
9. Residential Sub-Slab Soil Gas Screening Values taken from MassDEP "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.
10. New soil vapor points installed in July 2025.

Table 5-1 - Chemical Testing Results - Sub-Slab Soil Vapor (11 Morton Street)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	**11 Morton Street (cont.)**							
		EPMM (Vent) Status:	**Vent Open**				**Vent Open**			
		Sample Name:	**11-MORT-SV1**		**11-MORT-SV2**		**11-MORT-SV1**		**11-MORT-SV2**	
		Sample Date:	**8/29/2025**		**8/29/2025**		**12/19/2025**		**12/19/2025**	
		Units:	**ug/m^3**	**ppbv**	**ug/m^3**	**ppbv**	**ug/m3**	**ppbv**	**ug/m^3**	**ppbv**
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values (µg/m^3)**								
Volatile Organic Compounds (VOCs)	TO-15									
1,1,1-Trichloroethane (TCA)		210	0.267	0.049	0.267	0.049	<0.109	<0.020	<0.109	<0.020
1,1-Dichloroethane		56	<0.081	<0.020	<0.081	<0.020	<0.081	<0.020	<0.081	<0.020
1,1-Dichloroethylene		56	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020
Tetrachloroethylene (PCE)		98	1.49	0.219	20.8	3.06	0.495	0.073	6.34	0.935
Trichloroethylene (TCE)		28	0.204	0.038	1.29	0.24	<0.107	<0.020	0.253	0.047
Vinyl Chloride		19	<0.051	<0.020	<0.051	<0.020	<0.051	<0.020	<0.051	<0.020

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. MassDEP = Massachusetts Department of Environmental Protection
6. EPMM = Exposure Pathway Mitigation Measure.
7. NA = Not applicable
8. Highlighted sample indicates most recent sampling rounds.
9. Residential Sub-Slab Soil Gas Screening Values taken from MassDEP "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.
10. New soil vapor points installed in July 2025.

Table 5-2 - Chemical Testing Results - Sub-Slab Soil Vapor (60 Tufts Street Unit #1)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

				Location Name:	**60Tufts Street, Unit 1**								
				Sample Name:	**60TUFTS-SS13**		**60TUFTS-SS13**		**60TUFTS-SS13**		**60TUFTS-SS13**		**60TUFTS-SS13**	
				Sample Date:	**1/16/2008**		**1/17/2008**		**1/21/2008**		**4/25/2019**		**10/1/2025**	
				EPMM (SSDS) Status:	**NA (pre-installation)**		**NA (pre-installation)**		**NA (pre-installation)**		**Off, Vents Closed**		**Off, Vents Closed**	
				Units:	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values**												
Volatile Organic Compounds (VOCs)	TO-15	**µg/m^3**	**ppbv**											
Carbon Tetrachloride		38	6		0.75 J	0.12 J	< 1.3	< 0.20	1.1 J	0.18 J	NT	NT	NT	NT
1,1-Dichloroethane		56	14		2.2	0.54	1.3	0.32	2.6	0.64	<0.809	<0.20	0.389	0.096
1,1-Dichloroethylene		56	14		40.8	10.3	23	5.7	49.6	12.5	< 0.793	< 0.20	0.103	0.026
trans-1,2-Dichloroethylene		56	14		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.793	< 0.20	0.091	0.023
Tetrachloroethylene (PCE)		98	14		237	34.9	249	36.7	214	31.6	125	18.5	280	41.3
1,1,1-Trichloroethane (TCA)		210	38		3260 G	597 G	1010	186	3100	568	124	22.7	338	61.9
Trichloroethylene (TCE)		28	5.2		5.9	1.1	4.6	0.86	8.1	1.5	7.95	1.48	13.2	2.45

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. SSDS = Sub-Slab Depressurization System
6. NA = Not applicable
7. MassDEP = Massachusetts Department of Environmental Protection
8. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
9. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
10. The shutdown valve was closed for 1 week prior to collection of indoor air samples in April 2019, and October 2025.
11. Highlighted sample indicates most recent round.
12. NT = Not tested.
13. Residential Sub-Slab Soil Gas Screening Values taken from MassDEP "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Table 5-3 - Chemical Testing Results - Sub-Slab Soil Vapor (60 Tufts Street Unit #4)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

				Location Name:	60 Tufts Street, Unit 4									
				Sample Name:	60TUFT-4-SS1		60TUFT#4-SS1		60TUFT-UNIT4-SS1		60TUFT-UNIT4-SS1		60TUFT-UNIT4-SS1	
				Sample Date:	4/4/2007		11/9/2007		1/16/2008		1/17/2008		1/21/2008	
				EPMM (SSDS) Status:	NA (pre-installation)		NA (pre-installation)		NA (pre-installation)		NA (pre-installation)		NA (pre-installation)	
				Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values**												
Volatile Organic Compounds (VOCs)	TO-15	**µg/m^3**	**ppbv**											
Tetrachloroethylene (PCE)		98	14		136	20	213	31.4	89.5	13.2	94.3	13.9	117	17.2
1,1,1-Trichloroethane (TCA)		210	38		345	63.2	170	31.1	200	36.7	197	36.1	234	42.9
Trichloroethylene (TCE)		28	5.2		< 2.1	< 0.40	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. SSDS = Sub-Slab Depressurization System
6. NA = Not applicable
7. MassDEP = Massachusetts Department of Environmental Protection
8. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
9. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
10. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
11. Highlighted sample indicates most recent round.
12. Residential Sub-Slab Soil Gas Screening Values taken from MassDEP "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.

Table 5-3 - Chemical Testing Results - Sub-Slab Soil Vapor (60 Tufts Street Unit #4)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

				Location Name:	60 Tufts Street, Unit 4 (continued)									
				Sample Name:	60TUFT-4-SS2		60TUFT#4-SS2		60TUFTS4-SS2		60TUFTS4-SS2		60TUFTS4-SS2	
				Sample Date:	4/4/2007		11/9/2007		7/13/2018		4/25/2019		10/1/2025	
				EPMM (SSDS) Status:	NA (pre-installation)		NA (pre-installation)		Off, Vents Closed		Off, Vents Closed		Off, Vents Closed	
				Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values**												
Volatile Organic Compounds (VOCs)	TO-15	**µg/m^3**	**ppbv**											
Tetrachloroethylene (PCE)		98	14		29	4.3	63	9.3	2.15	0.317	2.95	0.435	4.98	0.734
1,1,1-Trichloroethane (TCA)		210	38		181	33.1	237	43.4	0.971	0.178	1.57	0.288	4.92	0.902
Trichloroethylene (TCE)		28	5.2		< 1.1	< 0.20	< 1.1	< 0.20	< 0.107	< 0.020	<1.07	<0.200	0.167	0.031

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. SSDS = Sub-Slab Depressurization System
6. NA = Not applicable
7. MassDEP = Massachusetts Department of Environmental Protection
8. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
9. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
10. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
11. Highlighted sample indicates most recent round.
12. Residential Sub-Slab Soil Gas Screening Values taken from MassDEP "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.

Table 5-4 - Chemical Testing Results - Sub-Slab Soil Vapor
(60 Tufts Street Common Spaces)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:				60 Tufts Street General Garage Area											
Sample Name:				60TUFT-SS10		60TUFT-SS10		60TUFT-SS10		60TUFT-SS10		60TUFT-SS10		60TUFT-SS10	
Sample Date:				1/16/2008		1/17/2008		1/21/2008		7/11/2018		4/25/2019		10/1/2025	
EPMM (SSDS) Status:				NA (pre-installation)		NA (pre-installation)		NA (pre-installation)		Off, Vents Closed		Off, Vents Closed		Off, Vents Closed	
Units:				µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values**													
Volatile Organic Compounds (VOCs)	TO-15	**µg/m^3**	**ppbv**												
Carbon tetrachloride		38	6	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	NT	NT	NT	NT	NT	NT
1,1-Dichloroethane		56	14	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	0.243	0.060	<0.809	<0.200	0.251	0.062
cis-1,2-Dichloroethylene		56	14	1.3	0.33	0.67 J	0.17 J	1.3	0.32	0.188	0.048	<0.793	<0.200	0.349	0.088
trans-1,2-Dichloroethylene		56	14	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	0.109	0.028	<0.793	<0.200	< 0.040	< 0.159
1,1-Dichloroethylene		56	14	3.7	0.93	1.4	0.35	2.7	0.68	1.13	0.284	<0.793	<0.200	0.809	0.204
Tetrachloroethylene (PCE)		98	14	895	132	504	74.3	692	102	376	55.5	45.6	6.73	332	49
1,1,1-Trichloroethane (TCA)		210	38	14	2.5	5.1	0.94	9.3	1.7	65.5	12.0	8.57	1.57	119	21.8
1,1,2-Trichloroethane		10	1.9	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 0.136	< 0.025	<1.09	<0.200	< 0.218	< 0.040
Trichloroethylene (TCE)		28	5.2	226 G	42.1 G	196	36.5	170	31.6	60.7	11.3	11.4	2.12	70.4	13.1

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. SSDS = Sub-Slab Depressurization System
6. NA = Not applicable
7. MassDEP = Massachusetts Department of Environmental Protection
8. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
9. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
10. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
11. Highlighted sample indicates most recent round.
12. NT = Not tested.
13. "SVT-MW202S" samples were collected from monitoring well soil vapor ports as part of sub-slab soil vapor sampling.
14. Residential Sub-Slab Soil Gas Screening Values taken from MassDEP "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Table 5-4 - Chemical Testing Results - Sub-Slab Soil Vapor
(60 Tufts Street Common Spaces)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:				**60 Tufts Street Hall**											
Sample Name:				**60TUFT-SS14**		**60TUFT-SS14**		**60TUFT-SS14**		**60TUFT-SS14**		**60TUFT-SS14**		**60TUFT-SS14**	
Sample Date:				**1/16/2008**		**1/17/2008**		**1/21/2008**		**7/11/2018**		**4/25/2019**		**10/1/2025**	
EPMM (SSDS) Status:				**NA (pre-installation)**		**NA (pre-installation)**		**NA (pre-installation)**		**Off, Vents Closed**		**Off, Vents Closed**		**Off, Vents Closed**	
Units:				**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values**													
Volatile Organic Compounds (VOCs)	TO-15	**µg/m^3**	**ppbv**												
Carbon tetrachloride		38	6	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	NT	NT	NT	NT	NT	NT
1,1-Dichloroethane		56	14	1.2	0.3	0.89	0.22	1.5	0.36	0.154	0.038	<0.809	<0.200	0.113	0.028
cis-1,2-Dichloroethylene		56	14	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.079	< 0.020	<0.793	<0.200	< 0.079	< 0.020
trans-1,2-Dichloroethylene		56	14	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	0.083	0.021	<0.793	<0.200	< 0.079	< 0.020
1,1-Dichloroethylene		56	14	26	6.5	15	3.8	35	8.9	< 0.079	< 0.020	<0.793	<0.200	< 0.079	< 0.020
Tetrachloroethylene (PCE)		98	14	2370	349	1970	291	2500	368	268	39.5	108	16	269	39.6
1,1,1-Trichloroethane (TCA)		210	38	2440 G	448 G	1310	241	2240	410	43.1	7.90	16.6	3.05	81.3	14.9
1,1,2-Trichloroethane		10	1.9	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 0.109	< 0.020	<1.09	<0.200	< 0.109	< 0.020
Trichloroethylene (TCE)		28	5.2	160	29.8	152	28.3	127	23.7	29.6	5.50	16.9	3.15	28.4	5.28

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. SSDS = Sub-Slab Depressurization System
6. NA = Not applicable
7. MassDEP = Massachusetts Department of Environmental Protection
8. < = The analyte was not detected at a concentration above the specified laboratory reporting limit
9. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
10. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
11. Highlighted sample indicates most recent round.
12. NT = Not tested.
13. "SVT-MW202S" samples were collected from monitoring well soil vapor ports as part of sub-slab soil vapor sampling.
14. Residential Sub-Slab Soil Gas Screening Values taken from MassDEP "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Table 5-4 - Chemical Testing Results - Sub-Slab Soil Vapor
(60 Tufts Street Common Spaces)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:				60 Tufts Street Hall (cont.)						60 Tufts Street Storage S							
Sample Name:				60TUFT-SS16		60TUFT-SS16		60TUFT-SS16		60TUFT-SS1		60TUFT-SS1		60TUFT-SS1		60TUFT-SS1	
Sample Date:				1/16/2008		1/17/2008		1/21/2008		4/4/2007		7/11/2018		4/25/2019		10/1/2025	
EPMM (SSDS) Status:				NA (pre-installation)		NA (pre-installation)		NA (pre-installation)		NA (pre-installation)		Off, Vents Closed		Off, Vents Closed		Off, Vents Closed	
Units:				µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values**															
Volatile Organic Compounds (VOCs)	TO-15	**µg/m^3**	**ppbv**														
Carbon tetrachloride		38	6	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	5.7	0.9	NT	NT	NT	NT	NT	NT
1,1-Dichloroethane		56	14	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	23	5.6	0.287	0.071	<0.809	<0.200	0.619	0.153
cis-1,2-Dichloroethylene		56	14	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	1.1	0.29	< 0.079	< 0.020	<0.793	<0.200	< 0.079	< 0.020
trans-1,2-Dichloroethylene		56	14	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.079	< 0.020	<0.793	<0.200	< 0.079	< 0.020
1,1-Dichloroethylene		56	14	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	2580	650	15.3	3.87	41.6	10.5	63.4	16
Tetrachloroethylene (PCE)		98	14	134	19.8	119	17.5	199	29.3	104	15.4	6.20	0.915	5.93	0.87	16.10	2.38
1,1,1-Trichloroethane (TCA)		210	38	79.7	14.6	14	2.5	72.6	13.3	18300	3360	63.3	11.6	251	46	374	68.5
1,1,2-Trichloroethane		10	1.9	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	1.2	0.22	< 0.109	< 0.020	<1.09	<0.200	< 0.109	< 0.020
Trichloroethylene (TCE)		28	5.2	8.6	1.6	7	1.3	12	2.2	159	29.5	4.33	0.806	3.41	0.635	15.3	2.84

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. SSDS = Sub-Slab Depressurization System
6. NA = Not applicable
7. MassDEP = Massachusetts Department of Environmental Protection
8. < = The analyte was not detected at a concentration above the specified laboratory reporting limit
9. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
10. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
11. Highlighted sample indicates most recent round.
12. NT = Not tested.
13. "SVT-MW202S" samples were collected from monitoring well soil vapor ports as part of sub-slab soil vapor sampling.
14. Residential Sub-Slab Soil Gas Screening Values taken from MassDEP "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Table 5-4 - Chemical Testing Results - Sub-Slab Soil Vapor
(60 Tufts Street Common Spaces)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:				60 Tufts Street Storage S (cont.)													
Sample Name:				60TUFT-SS2		60TUFT-STORAGE5-SS2		60TUFT-STORAGES-SS2		60TUFT-STORAGES-SS2		60TUFT-STORAGES-SS2		60TUFT-STORAGES-SS2		60TUFT-STORAGES-SS2	
Sample Date:				4/4/2007		1/16/2008		1/17/2008		1/21/2008		7/11/2018		4/25/2019		10/1/2025	
EPMM (SSDS) Status:				NA (pre-installation)		NA (pre-installation)		NA (pre-installation)		NA (pre-installation)		Off, Vents Closed		Off, Vents Closed		Off, Vents Closed	
Units:				µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m3	ppbv
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values**															
Volatile Organic Compounds (VOCs)	TO-15	µg/m^3	ppbv														
Carbon tetrachloride		38	6	< 13	< 2.0	< 1.3	< 0.20	< 1.3	< 0.20	0.63 J	0.10 J	NT	NT	NT	NT	NT	NT
1,1-Dichloroethane		56	14	< 8.1	< 2.0	2.8	0.7	< 0.81	< 0.20	1.1	0.28	0.093	0.023	<0.809	<0.200	0.158	0.039
cis-1,2-Dichloroethylene		56	14	< 7.9	< 2.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.079	< 0.020	<0.793	<0.200	< 0.079	< 0.020
trans-1,2-Dichloroethylene		56	14	< 7.9	< 2.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.079	< 0.020	<0.793	<0.200	< 0.079	< 0.020
1,1-Dichloroethylene		56	14	391	98.5	293	73.9	11	2.9	77.7	19.6	1.74	0.439	<0.793	<0.200	0.448	0.113
Tetrachloroethylene (PCE)		98	14	17	2.5	16	2.3	3.5	0.52	11	1.6	1.91	0.282	<1.36	<0.200	1.82	0.269
1,1,1-Trichloroethane (TCA)		210	38	2970	544	2300	422	85.1	15.6	447	81.9	12.0	2.20	7.09	1.30	28.00	5.13
1,1,2-Trichloroethane		10	1.9	< 11	< 2.0	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 0.109	< 0.020	<1.09	<0.200	< 0.109	< 0.020
Trichloroethylene (TCE)		28	5.2	28	5.2	25	4.6	4.4	0.82	16	2.9	0.752	0.140	<1.07	<0.200	0.967	0.180

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. SSDS = Sub-Slab Depressurization System
6. NA = Not applicable
7. MassDEP = Massachusetts Department of Environmental Protection
8. < = The analyte was not detected at a concentration above the specified laboratory reporting limit
9. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
10. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
11. Highlighted sample indicates most recent round.
12. NT = Not tested.
13. "SVT-MW202S" samples were collected from monitoring well soil vapor ports as part of sub-slab soil vapor sampling.
14. Residential Sub-Slab Soil Gas Screening Values taken from MassDEP "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Table 5-4 - Chemical Testing Results - Sub-Slab Soil Vapor
(60 Tufts Street Common Spaces)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:				**60 Tufts Street Storage S (cont.)**		**60 Tufts Street MW202 Sub-Slab**							
Sample Name:				**60TUFT-SS3**		**SVT-MW202S**		**SVT-MW202S**		**SVT-MW202S**		**SVT-MW202S**	
Sample Date:				**4/4/2007**		**7/17/2007**		**1/16/2008**		**1/17/2008**		**1/21/2008**	
EPMM (SSDS) Status:				**NA (pre-installation)**		**NA (pre-installation)**		**NA (pre-installation)**		**NA (pre-installation)**		**NA (pre-installation)**	
Units:				**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values**											
Volatile Organic Compounds (VOCs)	TO-15	**µg/m^3**	**ppbv**										
Carbon tetrachloride		38	6	< 13	< 2.0	< 25	< 4.0	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
1,1-Dichloroethane		56	14	5.3 J	1.3 J	< 16	< 4.0	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
cis-1,2-Dichloroethylene		56	14	< 7.9	< 2.0	< 16	< 4.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
trans-1,2-Dichloroethylene		56	14	< 7.9	< 2.0	< 16	< 4.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
1,1-Dichloroethylene		56	14	983	248	11 J	2.8 J	0.79	0.2	0.48 J	0.12 J	0.56 J	0.14 J
Tetrachloroethylene (PCE)		98	14	41	6	2550	376	252	37.1	366	54.0	403	59.4
1,1,1-Trichloroethane (TCA)		210	38	6060	1110	537	98.5	28	5.1	27	4.9	35	6.4
1,1,2-Trichloroethane		10	1.9	< 11	< 2.0	< 22	< 4.0	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		28	5.2	109	20.2	253	47.0	11	2.0	11	2.0	15	2.7

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. SSDS = Sub-Slab Depressurization System
6. NA = Not applicable
7. MassDEP = Massachusetts Department of Environmental Protection
8. < = The analyte was not detected at a concentration above the specified laboratory reporting limit
9. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
10. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
11. Highlighted sample indicates most recent round.
12. NT = Not tested.
13. "SVT-MW202S" samples were collected from monitoring well soil vapor ports as part of sub-slab soil vapor sampling.
14. Residential Sub-Slab Soil Gas Screening Values taken from MassDEP "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Table 5-5 - Chemical Testing Results - Sub-Slab Soil Vapor (121 Washington Street)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

				Location Name:	121 Washington Street (Pre-Redevelopment)		121 Washington Street (Post-Redevelopment)			
				Sample Name:	121 Wash-SS1		121Wash-SV1		121Wash-SV2	
				Sample Date:	4/11/2007		12/12/2025		12/12/2025	
				EPMM (Vent) Status:	NA (pre-redevelopment)		Vent Open		Vent Open	
				Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values (µg/m^3)**	**MassDEP Commercial Sub-Slab Soil Gas Screening Values (µg/m^3)**							
Volatile Organic Compounds (VOCs)	TO-15									
Tetrachloroethylene (PCE)		98	290		12	1.7	0.400	0.059	0.597	0.088
1,1,1-Trichloroethane		210	310000		0.51 J	0.093 J	< 0.109	< 0.020	0.131	0.024
Trichloroethylene (TCE)		28	120		< 1.1	< 0.20	0.403	0.075	< 0.107	< 0.020

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. MassDEP = Massachusetts Department of Environmental Protection
6. EPMM = Exposure Pathway Mitigation Measure.
7. NA = Not applicable
8. Results highlighted are the most recent samples collected.
9. Residential Sub-Slab Soil Gas Screening Values taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.
10. Commercial Sub-Slab Soil Gas Screening Values taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

Table 5-6 - Chemical Testing Results - Sub-Slab Soil Vapor (34 Knowlton Street)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

			Sample Location:	34 Knowlton							
			EPMM (Vent) Status:	Vent Open		Vent Closed		Vent Closed		Vent Open	
			Sample Name:	34KNOW-SV		34KNOW-SV		34KNOW-SV		34-KNOW-SV-R	
			Sample Date:	4/28/2015		2/1/2016		11/9/2016		12/19/2025	
			Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values (µg/m^3)**									
Volatile Organic Compounds (VOCs)	TO-15										
Tetrachloroethylene (PCE)		98		< 1.4	<0.20	8.1	1.2	1.9	0.28	1.00	0.148
trans-1,2-Dichloroethylene		56		<0.79	<0.20	<23	<5.9	<3.2	<0.80	0.135	0.034

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. MassDEP = Massachusetts Department of Environmental Protection
6. EPMM = Exposure Pathway Mitigation Measure.
7. Results highlighted are the most recent samples collected.
   Residential Sub-Slab Soil Gas Screening Values taken from the Massachusetts Department of Environmental Protection (MassDEP)
9. "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.
10. The sample collected on April 28, 2015 was taken from the uncapped riser pipe of the passive venting system.
11. On January 25, 2016, GEI observed the installation of a shutdown valve on the riser pipe of the passive venting system.
12. The shutdown valve was closed for one week prior to the soil vapor samples collected on February 1, 2016 and November 9, 2016.
13. The shutdown valve was not closed for the sample collected on December 19, 2025.

Table 5-7 - Chemical Testing Results - Indoor Air (11 Morton Street)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:			11 Morton Street															
Sample Name:			11 MORT-1		11 MORT-B		11MORT-1A		11MORT-1B		11MORT-B1		11MORT-B2		11MORT-1		11MORT-B	
Sample Date:			10/23/08		10/23/08		1/21/09		1/21/09		1/21/09		1/21/09		8/11/09		8/11/09	
EPMM (Vent) Status:			Open				Open				Open				Open			
APU Status:			NA		NA		NA		NA		NA		NA		NA		NA	
Units:			µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values (µg/m3)**																
Volatile Organic Compounds (VOCs)	TO-15																	
1,1,1-Trichloroethane (TCA)		3	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
1,2-Dichloroethane		0.09	0.45 J	0.11 J	0.49 J	0.12 J	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	11	2.8	2.0	0.49
Carbon tetrachloride		0.54	0.63 J	0.10 J	0.69 J	0.11 J	0.88 J	0.14 J	0.82 J	0.13 J	1.6	0.25	1.5	0.24	< 1.3	< 0.20	< 1.3	< 0.20
Tetrachloroethylene (PCE)		1.4	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
trans-1,2-Dichloroethene		0.8	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20
Trichloroethylene (TCE)		0.4	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. EPMM = Exposure Pathway Mitigation Measure.
6. NT= Not tested
7. NA = Not applicable
8. MassDEP = Massachusetts Department of Environmental Protection
9. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.
10. Highlighted sample indicates most recent sampling rounds.
11. The samples from January 21, 2009 (11MORT-B1 and B2, and 11MORT-1A and 1B) were field duplicates of each other.
12. The laboratory notes for 11MORT-B from April 2025 indicate that the cansiter ran ambient.
13. Art supplies used by the homeowner were removed on July 31, 2025
14. APU installed on the first floor on July 29, 2025, and in the finished portion of the basement on August 6, 2025.
15. APUs shutdown on 8/21/2025 following completion of sampling.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 5-7 - Chemical Testing Results - Indoor Air (11 Morton Street)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:			11 Morton Street (continued)															
Sample Name:			11MORT-1		11MORT-B		11MORT-1		11MORT-B		11MORT-1		11MORT-B		11MORT-1		11MORT-B	
Sample Date:			2/23/10		2/23/10		2/17/16		2/17/16		5/26/21		5/26/21		4/8/25		4/8/25	
EPMM (Vent) Status:			Open		Open		Open		Open		Open		Open		Open		Open	
APU Status:			NA		NA		NA		NA		NA		NA		NA			
Units:			µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values (µg/m3)**																
Volatile Organic Compounds (VOCs)	TO-15																	
1,1,1-Trichloroethane (TCA)		3	1.3	0.24	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020
1,2-Dichloroethane		0.09	< 0.81	< 0.20	< 0.81	< 0.20	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Carbon tetrachloride		0.54	< 1.3	< 0.20	< 1.3	< 0.20	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		1.4	< 1.4	< 0.20	< 1.4	< 0.20	1.7	0.25	2.2	0.33	0.190	0.028	<0.136	<0.020	<0.136	<0.020	<0.107	<0.020
trans-1,2-Dichloroethene		0.8	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020		
Trichloroethylene (TCE)		0.4	< 1.1	< 0.20	< 1.1	< 0.20	< 0.21	< 0.040	< 0.21	< 0.040	0.279	0.052	0.301	0.056	1.05	0.196	<0.107	<0.020

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. EPMM = Exposure Pathway Mitigation Measure.
6. NT= Not tested
7. NA = Not applicable
8. MassDEP = Massachusetts Department of Environmental Protection
9. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.
10. Highlighted sample indicates most recent sampling rounds.
11. The samples from January 21, 2009 (11MORT-B1 and B2, and 11MORT-1A and 1B) were field duplicates of each other.
12. The laboratory notes for 11MORT-B from April 2025 indicate that the cansiter ran ambient.
13. Art supplies used by the homeowner were removed on July 31, 2025
14. APU installed on the first floor on July 29, 2025, and in the finished portion of the basement on August 6, 2025.
15. APUs shutdown on 8/21/2025 following completion of sampling.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 5-7 - Chemical Testing Results - Indoor Air (11 Morton Street)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

			Sample Location:	11 Morton Street (continued)														
			Sample Name:	11MORT-F1		11MORT-B		11MORT-F1		11MORT-B		11MORT-F1		11MORT-B-Fin		11MORT-B-Unfin	
			Sample Date:	5/7/25		5/7/25		7/16/25		7/16/25		8/21/25		8/21/25		8/21/25	
			EPMM (Vent) Status:	Open				Open				Open					
			APU Status:	NA		NA		NA		NA		ON		ON		ON	
			Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values (µg/m3)**															
Volatile Organic Compounds (VOCs)	TO-15																
1,1,1-Trichloroethane (TCA)		3		<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020
1,2-Dichloroethane		0.09		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Carbon tetrachloride		0.54		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		1.4		0.203	0.030	0.217	0.032	0.149	0.022	0.149	0.022	<0.136	<0.020	<0.136	<0.020	<0.136	<0.020
trans-1,2-Dichloroethene		0.8		<0.079	<0.020	<0.079	<0.020	0.135	0.034	0.135	0.034	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020
Trichloroethylene (TCE)		0.4		2.77	0.516	0.269	0.05	8.65	1.61	6.88	1.28	0.989	0.184	0.215	0.040	0.124	0.023

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. EPMM = Exposure Pathway Mitigation Measure.
6. NT= Not tested
7. NA = Not applicable
8. MassDEP = Massachusetts Department of Environmental Protection
9. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.
10. Highlighted sample indicates most recent sampling rounds.
11. The samples from January 21, 2009 (11MORT-B1 and B2, and 11MORT-1A and 1B) were field duplicates of each other.
12. The laboratory notes for 11MORT-B from April 2025 indicate that the cansiter ran ambient.
13. Art supplies used by the homeowner were removed on July 31, 2025
14. APU installed on the first floor on July 29, 2025, and in the finished portion of the basement on August 6, 2025.
15. APUs shutdown on 8/21/2025 following completion of sampling.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 5-7 - Chemical Testing Results - Indoor Air (11 Morton Street)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

			Sample Location:	11 Morton Street (continued)												
			Sample Name:	11MORT-F1		11MORT-B-Fin		11MORT-B-Unfin		11MORT-F1		11MORT-B-Fin		11MORT-B-Unfin	
			Sample Date:	8/29/25		8/29/25		8/29/25		12/19/25		12/19/25		12/19/25	
			EPMM (Vent) Status:	Open						Open					
			APU Status:	OFF		OFF		OFF		OFF		OFF		OFF	
			Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values (µg/m3)**													
Volatile Organic Compounds (VOCs)	TO-15														
1,1,1-Trichloroethane (TCA)		3		<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020
1,2-Dichloroethane		0.09		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Carbon tetrachloride		0.54		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		1.4		<0.136	<0.020	<0.136	<0.020	<0.136	<0.020	<0.136	<0.020	0.536	0.079	<0.136	<0.020
trans-1,2-Dichloroethene		0.8		<0.079	<0.020	0.083	0.021	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020
Trichloroethylene (TCE)		0.4		6.56	1.22	4.11	0.765	1.21	0.225	2.18	0.406	0.742	0.138	<0.107	<0.020

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. EPMM = Exposure Pathway Mitigation Measure.
6. NT= Not tested
7. NA = Not applicable
8. MassDEP = Massachusetts Department of Environmental Protection
9. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.
10. Highlighted sample indicates most recent sampling rounds.
11. The samples from January 21, 2009 (11MORT-B1 and B2, and 11MORT-1A and 1B) were field duplicates of each other.
12. The laboratory notes for 11MORT-B from April 2025 indicate that the cansiter ran ambient.
13. Art supplies used by the homeowner were removed on July 31, 2025
14. APU installed on the first floor on July 29, 2025, and in the finished portion of the basement on August 6, 2025.
15. APUs shutdown on 8/21/2025 following completion of sampling.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 5-8 - Chemical Testing Results - Indoor Air (60 Tufts Street Unit #1)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:				**60 Tufts Street, Unit 1**									
Sample Name:				**60TUFTS1-1**		**60TUFTS1-1**		**60TUFTS-1**		**60TUFTS-1**		**60TUFTS-1**	
Sample Date:				**5/27/09**		**2/5/11**		**7/11/18**		**4/25/19**		**10/1/25**	
Collected By:				**GEI**		**GEI**		**GEI**		**GEI**		**GEI**	
EPMM (SSDS) Status:				**On**		**On**		**Off, Vents Closed**		**Off, Vents Closed**		**Off, Vents Closed**	
Units:				**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**
Analyte	**Method**	**MassDEP Residential Indoor Air Threshold Values (µg/m3)**											
Volatile Organic Compounds (VOCs)	TO-15	**µg/m^3**	**ppbv**										
Tetrachloroethylene (PCE)		1.4	0.21	< 1.4	< 0.20	< 1.4	< 0.20	0.787	0.116	0.712	0.105	0.787	0.116
1,1,1-Trichloroethane (TCA)		3	0.54	< 1.1	< 0.20	< 1.1	< 0.20	< 0.109	< 0.020	< 0.109	< 0.020	0.032	0.175
Trichloroethylene (TCE)		0.4	0.075	< 1.1	< 0.20	<1.1	< 0.20	< 0.107	< 0.020	< 0.107	< 0.020	0.107	0.020

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. SSDS = Sub-Slab Depressurization System
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. MassDEP = Massachusetts Department of Environmental Protection
8. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
9. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
10. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
11. Highlighted sample indicates most recent round.

Table 5-9 - Chemical Testing Results - Indoor Air (60 Tufts Street Unit #4)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:				60 Tufts Street, Unit 4													
Sample Name:				60TUFTU4-1		60TUFTU4-B		60TUFTU4-1		60TUFTU4-B		60TUFTU4-1		60TUFTU4-B		60TUFTU4-1		60TUFTU4-B	
Sample Date:				5/27/09		5/27/09		6/22/09		6/22/09		2/24/10		2/24/10		9/19/10		9/19/10	
Collected By:				GEI		GEI		GEI		GEI		GEI		GEI		GEI		GEI	
EPMM (SSDS) Status:				On		On		On		On		On		On		On		On	
Units:				µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Indoor Air Threshold Values (µg/m3)**																	
Volatile Organic Compounds (VOCs)	TO-15	**µg/m^3**	**ppbv**																
1,2-Dichloroethane (DCA)		0.09	0.022	3.2	0.80	< 0.81	< 0.20	2.8	0.70	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Tetrachloroethylene (PCE)		1.4	0.21	1.4	0.20	1.0 J	0.15 J	0.95 J	0.14 J	< 1.4	< 0.20	5.8	0.86	5.2	0.76	< 1.4	< 0.20	< 1.4	< 0.20
1,1,1-Trichloroethane (TCA)		3	0.54	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		0.4	0.075	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.75 J	0.14 J	2.1	0.39	1.9	0.35	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. SSDS = Sub-Slab Depressurization System
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. MassDEP = Massachusetts Department of Environmental Protection
8. NT = Not tested.
9. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
10. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
11. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
12. Highlighted sample indicates most recent round.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 5-9 - Chemical Testing Results - Indoor Air (60 Tufts Street Unit #4)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:				60 Tufts Street, Unit 4 (cont.)															
Sample Name:				60TUFTU4-1		60TUFTU4-B		60TUFTS4-1		60TUFTS4-B		60TUFTS4-1		60TUFTS4-B		60TUFTS4-1		60TUFTS4-B	
Sample Date:				2/5/11		2/5/11		7/11/18		7/11/18		4/25/19		4/25/19		10/1/25		10/1/25	
Collected By:				GEI		GEI		GEI		GEI		GEI		GEI		GEI		GEI	
EPMM (SSDS) Status:				On		On		Off, Vents Closed		Off, Vents Closed		Off, Vents Closed		Off, Vents Closed		Off, Vents Closed		Off, Vents Closed	
Units:				µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m3	ppbv	µg/m3	ppbv
Analyte	**Method**	**MassDEP Residential Indoor Air Threshold Values (µg/m3)**																	
Volatile Organic Compounds (VOCs)	TO-15	µg/m^3	ppbv																
1,2-Dichloroethane (DCA)		0.09	0.022	NT	NT	NT	NT	0.146	0.036	0.154	0.038	< 0.079	< 0.020	0.115	0.029	< 0.079	< 0.020	< 0.079	< 0.020
Tetrachloroethylene (PCE)		1.4	0.21	< 1.4	< 0.20	< 1.4	< 0.20	0.488	0.072	0.522	0.077	0.264	0.039	0.698	0.103	0.264	0.039	0.312	0.046
1,1,1-Trichloroethane (TCA)		3	0.54	< 1.1	< 0.20	< 1.1	< 0.20	< 0.109	< 0.020	< 0.109	< 0.020	< 0.109	< 0.020	< 0.109	< 0.020	0.153	0.028	< 0.109	< 0.020
Trichloroethylene (TCE)		0.4	0.075	< 1.1	< 0.20	< 1.1	< 0.20	< 0.107	< 0.020	< 0.107	< 0.020	< 0.107	< 0.020	< 0.107	< 0.020	< 0.107	< 0.020	< 0.107	< 0.020

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. SSDS = Sub-Slab Depressurization System
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. MassDEP = Massachusetts Department of Environmental Protection
8. NT = Not tested.
9. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS
10. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
11. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
12. Highlighted sample indicates most recent round.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 5-10 - Chemical Testing Results - Indoor Air (60 Tufts Street Common Spaces)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

				Sample Location:	60 Tufts Street, Common Spaces									
				Sample Name:	60TUFTHALL-A		60TUFTHALL-B		60TUFT-GARG		60TUFT-HALL		60TUFT-STOR1	
				Sample Date:	4/20/10		4/20/10		4/25/19		4/25/19		4/25/19	
				Collected By:	GEI		GEI		GEI		GEI		GEI	
				EPMM (SSDS) Status:	On		On		Off, Vents Closed		Off, Vents Closed		Off, Vents Closed	
				Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Indoor Air Threshold Values**												
Volatile Organic Compounds (VOCs)	TO-15	**µg/m^3**	**ppbv**											
Tetrachloroethylene (PCE)		1.4	0.21		< 1.4	< 0.20	< 1.4	< 0.20	0.210	0.031	0.292	0.043	0.163	0.024
1,1,1-Trichloroethane (TCA)		3	0.54		< 1.1	< 0.20	< 1.1	< 0.20	< 0.109	< 0.020	< 0.109	< 0.020	< 0.109	< 0.020
Trichloroethylene (TCE)		0.4	0.075		< 1.1	< 0.20	< 1.1	< 0.20	< 0.107	< 0.020	< 0.107	< 0.020	< 0.107	< 0.020

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. SSDS = Sub-Slab Depressurization System
6. MassDEP = Massachusetts Department of Environmental Protection
7. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
8. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
9. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
10. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
11. "HALL" samples collected in April 2019 and October 2025 were collected from the same location as "HALL-A" sample collected in 2010.
12. Highlighted samples indicate most recent round.

Table 5-10 - Chemical Testing Results - Indoor Air (60 Tufts Street Common Spaces)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:				**60 Tufts Street, Common Spaces (cont.)**									
Sample Name:				**60-TUFTSTOR2**		**60TUFT-GARG**		**60TUFT-HALL**		**60TUFT-STOR1**		**60-TUFTSTOR2**	
Sample Date:				**4/25/19**		**10/1/25**		**10/1/25**		**10/1/25**		**10/1/25**	
Collected By:				**GEI**		**GEI**		**GEI**		**GEI**		**GEI**	
EPMM (SSDS) Status:				**Off, Vents Closed**		**Off, Vents Closed**		**Off, Vents Closed**		**Off, Vents Closed**		**Off, Vents Closed**	
Units:				**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**
Analyte	**Method**	**MassDEP Residential Indoor Air Threshold Values**											
Volatile Organic Compounds (VOCs)	TO-15	**µg/m³**	**ppbv**										
Tetrachloroethylene (PCE)		1.4	0.21	0.142	0.021	0.732	0.108	0.848	0.125	< 0.136	< 0.020	< 0.136	< 0.020
1,1,1-Trichloroethane (TCA)		3	0.54	< 0.109	< 0.020	0.125	0.023	0.191	0.035	< 0.109	< 0.020	< 0.109	< 0.020
Trichloroethylene (TCE)		0.4	0.075	< 0.107	< 0.020	0.113	0.021	0.150	0.028	< 0.107	< 0.020	< 0.107	< 0.020

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. SSDS = Sub-Slab Depressurization System
6. MassDEP = Massachusetts Department of Environmental Protection
7. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
8. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
9. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
10. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
11. "HALL" samples collected in April 2019 and October 2025 were collected from the same location as "HALL-A" sample collected in 2010.
12. Highlighted samples indicate most recent round.

Table 5-11 - Chemical Testing Results - Indoor Air (19-19A Morton Street)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

		Location Name:	Pre-EPMM 19-19A Morton Street															
		Sample Name:	19MORT-1		19MORT-B		19MORT-1		19MORT-B		19MORT-1		19MORT-B		19MORT-1		19MORT-B	
		Sample Date:	7/2/07		7/2/07		4/4/08		4/4/08		8/18/08		8/18/08		1/13/09		1/13/09	
		EPMM (Vent) Status:	NA (pre-installation)				NA (pre-installation)				NA (pre-installation)				NA (pre-installation)			
		Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values**																
Volatile Organic Compounds (VOCs)	**TO-15**																	
1,2-Dichloroethane		0.09	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	4.9	1.2	0.73 J	0.18 J	< 0.81	< 0.20	< 0.81	< 0.20
Carbon tetrachloride		0.54	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	0.88 J	0.14 J	0.69 J	0.11 J	0.63 J	0.10 J	< 1.3	< 0.20
Tetrachloroethylene (PCE)		1.4	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	0.68 J	0.10 J	< 1.4	< 0.20	< 1.4	< 0.20	6.0	0.89	8.8	1.3

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. NT = Not tested.
8. NA = Not applicable
9. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
10. Highlighted samples indicate most recent round.

Table 5-11 - Chemical Testing Results - Indoor Air (19-19A Morton Street)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

		Location Name:	Post-EPMM 19-19A Morton Street															
		Sample Name:	19MORT-1		19MORT-B		19MORT-1		19MORT-B		19MORT-1		19MORT-B		19MORT-1		19MORT-B	
		Sample Date:	9/3/09		9/3/09		1/29/10		1/29/10		12/7/10		12/7/10		4/10/11		4/10/11	
		EPMM (Vent) Status:	Vent Open				Vent Open				Vent Open				Vent Open			
		Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values**																
Volatile Organic Compounds (VOCs)	**TO-15**																	
1,2-Dichloroethane		0.09	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	NT	NT	NT	NT	NT	NT	NT	NT
Carbon tetrachloride		0.54	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		1.4	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	3.1	0.45	4.8	0.71	< 1.4	< 0.20	2.2	0.33

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. NT = Not tested.
8. NA = Not applicable
9. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
10. Highlighted samples indicate most recent round.

Table 5-11 - Chemical Testing Results - Indoor Air (19-19A Morton Street)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

		Location Name:	Post-EPMM 19-19A Morton Street (cont.)											
		Sample Name:	19MORT-1		19MORT-B		19MORT-1		19MORT-B		19MORT-1		19MORT-B	
		Sample Date:	3/2/12		3/2/12		2/27/25		2/27/25		12/19/25		12/19/25	
		EPMM (Vent) Status:	Vent Open				Vent Open				Vent Open			
		Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values**												
Volatile Organic Compounds (VOCs)	**TO-15**													
1,2-Dichloroethane		0.09	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Carbon tetrachloride		0.54	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		1.4	< 1.4	< 0.20	1.0 J	0.15 J	0.136	0.020	0.142	0.021	<0.136	<0.020	<0.136	<0.020

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. NT = Not tested.
8. NA = Not applicable
9. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
10. Highlighted samples indicate most recent round.

Table 5-12 - Chemical Testing Results - Indoor Air (91-93 Franklin Street)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	91-93 Franklin Street pre-EPMM				91-93 Franklin Street post-EPMM											
		Sample Name:	93 Franklin-1		93 Franklin-B		91-93 FRANK-1		91-93 FRANK-B		91-93FRAN-1		91-93FRAN-B		91-93FRAN-1		91-93FRAN-B	
		Sample Date:	2/14/07		2/14/07		4/8/09		4/8/09		3/24/10		3/24/10		12/7/10		12/7/2010	
		EPMM (Vent) Status:	NA (pre-installation)				Vent Open				Vent Open				Vent Open			
		Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values**																
Volatile Organic Compounds (VOCs)	TO-15																	
Tetrachloroethylene (PCE)		1.4	0.95 J	0. 14 J	3.5	0.52	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	<1.4	<0.20	<1.4	<0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. NA = Not applicable
8. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
9. Highlighted samples indicate most recent round.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 5-12 - Chemical Testing Results - Indoor Air (91-93 Franklin Street)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	91-93 Franklin Street post-EPMM (cont)													
		Sample Name:	91-93FRAN-1		91-93FRAN-B		91-93FRAN-1		91-93FRAN-B		93FRAN-1		91FRAN-1		93FRAN-B	
		Sample Date:	2/2/11		2/2/2011		3/2/12		3/2/2012		2/28/25		2/28/25		2/28/25	
		EPMM (Vent) Status:	Vent Open				Vent Open				Vent Open					
		Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values**														
Volatile Organic Compounds (VOCs)	TO-15															
Tetrachloroethylene (PCE)		1.4	<1.4	<0.20	<1.4	<0.20	<1.4	<0.20	<1.4	<0.20	0.183	0.027	0.163	0.024	0.156	0.023

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. NA = Not applicable
8. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
9. Highlighted samples indicate most recent round.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 5-12 - Chemical Testing Results - Indoor Air (91-93 Franklin Street)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	91-93 Franklin Street post-EPMM (cont)					
		Sample Name:	93FRAN-1		91FRAN-1		93FRAN-B	
		Sample Date:	12/19/25		12/19/25		12/19/25	
		EPMM (Vent) Status:	Vent Open					
		Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values**						
Volatile Organic Compounds (VOCs)	TO-15							
Tetrachloroethylene (PCE)		1.4	0.231	0.034	0.665	0.098	0.278	0.041

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. NA = Not applicable
8. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
9. Highlighted samples indicate most recent round.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 5-13 - Chemical Testing Results - Indoor Air (32 Knowlton Street)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	32 Knowlton Street pre-EPMM								32 Knowlton Street Post-EPMM							
		Sample Name:	32KNOW-1		32KNOW-B		32KNOW-1		32KNOW-B		32KNOW-1		32KNOW-B		32KNOW-1		32KNOW-B	
		Sample Date:	10/30/08		10/30/08		1/16/09		1/16/09		7/31/09		7/31/09		1/29/10		1/29/10	
		EPMM (Vent) Status:	NA (pre-installation)				NA (pre-installation)				Vent Open				Vent Open			
		Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values**																
Volatile Organic Compounds (VOCs)	**TO-15**																	
1,2-Dichloroethane		0.09	0.49 J	0.12 J	<0.81	<0.20	<0.81	<0.20	<0.81	<0.20	< 0.81	< 0.20	3.0	0.73	< 0.81	< 0.20	< 0.81	< 0.20
Carbon tetrachloride		0.54	0.58 J	0.092 J	0.61 J	0.097 J	0.63 J	0.10 J	0.57 J	0.091 J	<1.3	< 0.20	<1.3	< 0.20	<1.3	< 0.20	<1.3	< 0.20
cis-1,2-Dichloroethene		0.8	<0.79	<0.20	<0.79	<0.20	<0.79	<0.20	0.59 J	0.15 J	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20
Tetrachloroethylene (PCE)		1.4	<1.4	<0.20	<1.4	<0.20	5.6	0.82	20	3.0	<1.4	< 0.20	<1.4	< 0.20	<1.4	< 0.20	<1.4	< 0.20
Trichloroethene		0.4	<1.1	<0.20	<1.1	<0.20	<1.1	<0.20	0.91 J	0.17 J	<1.1	< 0.20	<1.1	< 0.20	<1.1	< 0.20	<1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. NT = Not tested.
8. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
9. NA = Not applicable
10. Highlighted samples indicate most recent round.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 5-13 - Chemical Testing Results - Indoor Air (32 Knowlton Street)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	32 Knowlton Street Post-EPMM (cont.)															
		Sample Name:	32KNOW-1		32KNOW-B		32KNOW-1		32KNOW-B		32KNOW-1		32KNOW-B		32KNOW-1		32KNOW-B	
		Sample Date:	11/19/10		11/19/10		3/8/11		3/8/11		2/28/25		2/28/25		12/19/25		12/19/25	
		EPMM (Vent) Status:	Vent Open				Vent Open				Vent Open				Vent Open			
		Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values**																
Volatile Organic Compounds (VOCs)	**TO-15**																	
1,2-Dichloroethane		0.09	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Carbon tetrachloride		0.54	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
cis-1,2-Dichloroethene		0.8	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020
Tetrachloroethylene (PCE)		1.4	<1.4	< 0.20	<1.4	< 0.20	<1.4	< 0.20	<1.4	< 0.20	0.163	0.024	0.136	0.020	<0.136	<0.020	0.136	0.020
Trichloroethene		0.4	<1.1	< 0.20	<1.1	< 0.20	<1.1	< 0.20	<1.1	< 0.20	<0.107	<0.020	<0.107	<0.020	<0.107	<0.020	<0.107	<0.020

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. NT = Not tested.
8. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
9. NA = Not applicable
10. Highlighted samples indicate most recent round.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 5-14 - Chemical Testing Results - Indoor Air (34 Knowlton Street)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	34 Knowlton Street											
		Sample Name:	34KNOWLTON-BASE		34KNOWLTON-1		34-KNOWLTON-		34-KNOWLTON-1		34-KNOWLTON-		34-KNOWLTON-1	
		Sample Date:	6/21/14		6/21/14		4/8/15		4/8/15		4/28/15		4/28/15	
		Collected By:	GEI		GEI		GEI		GEI		GEI		GEI	
		EPMM (Vent) Status:	Vent Open				Vent Open				Vent Open			
		Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values**												
Volatile Organic Compounds (VOCs)	**TO-15**													
1,1,1-Trichloroethane (TCA)		3	<1.1	<0.20	<1.1	<0.20	<1.1	<0.20	1.2	0.22	<1.1	<0.20	<1.1	<0.20
cis-1,2-Dichloroethene		0.8	<0.79	<0.20	<0.79	<0.20	<0.79	<0.20	6.3	1.6	<0.79	<0.20	<0.79	<0.20
Tetrachloroethylene (PCE)		1.4	<1.4	<0.20	<1.4	<0.20	<1.4	<0.20	70.5	10.4	<1.4	<0.20	2.4	0.36
trans-1,2-Dichloroethene		0.8	11	2.8	18	4.6	<0.79	<0.20	<0.79	<0.20	<0.79	<0.20	1.5	0.39
Trichloroethene		0.4	<1.1	<0.20	<1.1	<0.20	<1.1	<0.20	1.2	0.22	<1.1	<0.20	<1.1	<0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
5. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
6. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
7. Highlighted samples indicate most recent round.
8. April 8, 2015 detections of PCE attributed to dry-cleaned clothing present in the residence.
9. The indoor air samples collected in February 2016 and November 2016 were collected under conditions that simulate the absence of the passive EPMM at the property.

Table 5-14 - Chemical Testing Results - Indoor Air (34 Knowlton Street)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	34 Knowlton Street											
		Sample Name:	34-KNOWLTON-2		34-KNOWLTON-3		34-KNOW-B		34-KNOW-1		34-KNOW-B		34-KNOW-1	
		Sample Date:	4/28/15		4/28/15		2/17/16		2/17/16		11/9/16		11/9/16	
		Collected By:	GEI		GEI		GEI		GEI		GEI		GEI	
		EPMM (Vent) Status:	Vent Open				Vent Closed				Vent Closed			
		Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values**												
Volatile Organic Compounds (VOCs)	**TO-15**													
1,1,1-Trichloroethane (TCA)		3	<1.1	<0.20	<1.1	<0.20	<1.1	<0.20	<1.1	<0.20	<1.1	<0.20	<1.1	<0.20
cis-1,2-Dichloroethene		0.8	<0.79	<0.20	<0.79	<0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		1.4	<1.4	<0.20	<1.4	<0.20	0.54	0.08	2.6	0.38	1.8	0.26	5.5	0.81
trans-1,2-Dichloroethene		0.8	4.8	1.2	16	4.0	< 0.79	< 0.20	< 0.79	< 0.20	1.3	0.32	1.2	0.30
Trichloroethene		0.4	<1.1	<0.20	<1.1	<0.20	<0.21	<0.040	<0.21	<0.040	<0.21	<0.040	0.32	0.06

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
5. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
6. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
7. Highlighted samples indicate most recent round.
8. April 8, 2015 detections of PCE attributed to dry-cleaned clothing present in the residence.
9. The indoor air samples collected in February 2016 and November 2016 were collected under conditions that simulate the absence of the passive EPMM at the property.

Table 5-14 - Chemical Testing Results - Indoor Air (34 Knowlton Street)
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	34 Knowlton Street											
		Sample Name:	34-KNOW-B		34-KNOW-1		34-KNOW-B		34-KNOW-1		34-KNOW-B		34-KNOW-1	
		Sample Date:	3/17/17		3/17/17		2/25/25		4/9/25		12/19/25		12/19/25	
		Collected By:	GEI		GEI		GEI		GEI		GEI		GEI	
		EPMM (Vent) Status:	Vent Open				Vent Open				Vent Open			
		Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values**												
Volatile Organic Compounds (VOCs)	**TO-15**													
1,1,1-Trichloroethane (TCA)		3	<1.1	<0.20	<1.1	<0.20	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020
cis-1,2-Dichloroethene		0.8	< 0.79	< 0.20	< 0.79	< 0.20	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020
Tetrachloroethylene (PCE)		1.4	1.9	0.28	3.7	0.54	<0.136	<0.020	0.163	0.024	<0.136	<0.020	<0.136	<0.020
trans-1,2-Dichloroethene		0.8	<0.79	<0.20	<0.79	<0.20	0.135	0.034	0.127	0.032	0.190	0.048	0.151	0.038
Trichloroethene		0.4	<0.21	<0.040	<0.21	<0.040	<0.107	<0.020	<0.107	<0.020	<0.107	<0.020	<0.107	<0.020

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
5. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
6. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
7. Highlighted samples indicate most recent round.
8. April 8, 2015 detections of PCE attributed to dry-cleaned clothing present in the residence.
9. The indoor air samples collected in February 2016 and November 2016 were collected under conditions that simulate the absence of the passive EPMM at the property.

Table 5-15. Summary of Meteorological Data During Air Sampling Events
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location	Sample Date	Sample Location	Outside Temperature (ºF)[1,3]		Outside Barometric Pressure (in. Hg)[2,4]		Prevailing Wind Direction		General Weather Conditions		Significant precipitation within 12 hours prior to Sampling?
			Start	End	Start	End	Start	End	Start	End	
Residences											
11 Morton Street	7/15/2025 - 7/16/2025	F1	82	85	30.06	30.01	SW		Mostly Sunny	Sunny	No
		B									
	7/16/2025	SV1	89	91	29.99	29.98					
		SV2									
	8/20/2025 - 8/21/2025	F1	65	63	30.19	30.1	E	NE	Light Rain	Cloudy	Yes
		B-Unfin									
		B-Fin									
	8/21/2025	SV1	66	68	30.08	30.07	ENE		Cloudy		
		SV2									
	8/28/2025 - 8/29/2025	F1	64	66	30.14	29.98	W	SSE	Sunny		No
		B-Unfin									
		B-Fin									
	8/29/2025	SV1	67	71	29.98	29.96	SSE	SSW			
		SV2									
	12/18/2025-12/19/2025	F1	42	56	30.31	29.31	S		Clear	Rain	Yes
		B-Unfin									
		B-Fin									
	12/19/2025	SV1	58		29.3	29.22			Rain		
		SV2									
60 Tufts Street	9/30/2025 - 10/1/2025	Hall	57	50	30.09	30.18	WNW	N	Cloudy		No
		Garage									
		Storage 1			30.1	30.18					
		Storage 2									
		Unit 1	56	51	30.08	30.17	W	N	Cloudy	Cloudy	
		Unit 4-B	65	58	30.11	30.21	N	NNE			
		Unit 4-F1								Sunny	
		SS1	53	54	30.18	30.19	N	NNE	Sunny		
		Storage SS2									
		SS14									
		Unit 4 SS2	55	58	30.2	30.21	NNE				
		SS10	52	54	30.17	30.19					
		SS13	51	52		30.18	N		Cloudy	Sunny	
121 Washington Street	12/12/2025	SV1	35		29.87		W		Sunny		No
		SV2									
91-93 Franklin Street	12/18/2025-12/19/2025	93 Franklin-B	30	53	30.3	29.72	W	S	Clear	Rain/ Cloudy	Yes
		91 Franklin-F1									
		93 Franklin-F1									
19-19A Morton Street	12/18/2025-12/19/2025	F1	30	52	30.29	29.72	W	S	Clear	Rain/ Cloudy	Yes
		B									
32 Knowlton Street	12/18/2025-12/19/2025	F1	42	56	30.33	29.4	S		Clear	Rain	Yes
		B									
34 Knowlton Street	12/18/2025-12/19/2025	F1	32	54	30.33	29.63	SW	S	Clear	Cloudy	Yes
		B									
	12/19/2025	93 Franklin-F1	54	56	29.64	29.58	S		Cloudy/ Rain	Rain	

General Notes:
1. ºF = degrees Fahrenheit.
2. in. Hg = inches of mercury.
3. Temperatures were measured in the field using a hand-held thermometer.
4. Barometric pressures were measured in the field with a digital barometer.

Table 6-1. Summary of SSDS Monitoring Events - Capuano Center
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Monitoring Date	Monitoring Event per RMR Report Period	Type of Monitoring Event	SSDS Field Parameters Measured	Analytical Samples Collected (Yes/No)?
7/9/2025	1	SSDS Quarterly Monitoring	-Pressure readings, VOC concentrations, and flow rate at each manifold pipe. -Pressure readings, VOC concentrations, and flow rate at all the exterior extraction pipes.	No
10/10/2025	2	SSDS Quarterly Monitoring	-Pressure readings, VOC concentrations, and flow rate at each manifold pipe. -Pressure readings, VOC concentrations, and flow rate at all the exterior extraction pipes.	No

General Notes:

1. SSDS = Sub-Slab Depressurization System.
2. RMR = Remedial Monitoring Report.
3. VOC = Volatile Organic Compound.
4. VOC measurements collected with a ppm-RAE calibrated to 100 parts per million (ppm) isobutylene.
5. Pressure readings collected using a Dwyer 475-000-FM manometer.

Table 6-2. Chemical Testing Results - Capuano Center Indoor and Outdoor Air
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

	Sample Location:	Cafetorium		Room 101				Room 108				Room 121		Room 122						Room 125				Room 126					
	Sample ID:	150 GLEN-CAF		150 GLEN-ROOM 101A		150 GLEN-ROOM 101B		150 GLEN-ROOM 108A		150 GLEN-ROOM 108B		150 GLEN-ROOM 121		150 GLEN-ROOM 122		150 GLEN-RM 122		150 GLEN-RM 122		150 GLEN-ROOM 125A		150 GLEN-ROOM 125B		150 GLEN-ROOM 126		150 GLEN-ROOM 100 (FD-Room 126)		150 GLEN-RM 126	
	Sample Date:	1/6/07		12/27/06		12/28/06		12/27/06		12/28/06		1/6/07		1/6/07		2/7/07		5/23/15		12/27/06		12/28/06		1/13/07		1/13/07		2/7/07	
	Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**																												
Volatile Organic Compounds (VOCs)	TO-15																												
Carbon tetrachloride		0.49 J J+	0.078 J J+	< 1.3	< 0.20	< 1.3	< 0.20	0.94 J	0.15 J	< 1.3	< 0.20	0.52 J J+	0.082 J J+	0.51 J	0.081 J J+	0.69 J	0.11 J	NT	NT	1.0 J	0.16 J	< 1.3	< 0.20	0.69 J	0.11 J	0.63 J	0.10 J	0.94 J	0.15 J
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	NT	NT	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethane,1,1,2,2-		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Tetrachloroethylene (PCE)		0.88 J J+	0.13 J J+	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	0.88 J	0.13 J	0.75 J	0.11 J	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. FD = Field Duplicate.
6. The samples collected in August 2009, November 2009, February 2010, November 2010, March 2011, and May 2015 were collected over a 24 hour period.

7 NT = Not Tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

J+ The reported result is estimated.

Table 6-2. Chemical Testing Results - Capuano Center Indoor and Outdoor Air
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:		Room 126 (continued)																									
Sample ID:		150GLEN-ROOM 126		150 GLEN-ROOM 126		150 GLEN-RM 126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126	
Sample Date:		3/8/07		4/20/07		5/17/07		7/30/07		9/10/07		10/8/07		10/14/07		11/15/07		12/13/07		1/21/08		2/19/08		2/22/08		3/172008		4/21/08	
Units:		µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**																										
Volatile Organic Compounds (VOCs)	TO-15																										
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.60 J	0.095 J	0.69 J	0.11 J	0.82 J	0.13 J	< 1.3	< 0.20	0.69 J	0.11 J	0.59 J	0.093 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethane,1,1,2,2-		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	1.0 J	0.15 J	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. FD = Field Duplicate.
6. The samples collected in August 2009, November 2009, February 2010, November 2010, March 2011, and May 2015 were collected over a 24 hour period.

7 NT = Not Tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

J+ The reported result is estimated.

Table 6-2. Chemical Testing Results - Capuano Center Indoor and Outdoor Air
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:		Room 126 (continued)																		Room 134						Room 136		Room 137			
Sample ID:		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150 GLEN-ROOM 134		150 GLEN-RM 134		150 GLEN-RM 134		150 GLEN-ROOM 136		150 GLEN-ROOM 137A		150 GLEN-ROOM 137B	
Sample Date:		8/18/08		11/24/08		3/2/09		8/27/09		11/11/09		2/19/10		11/11/10		3/17/11		5/23/15		1/13/07		2/7/07		5/23/15		1/13/07		1/6/07		1/6/07	
Units:		µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**																														
Volatile Organic Compounds (VOCs)	TO-15																														
Carbon tetrachloride		0.60 J	0.096 J	0.60 J	0.096 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	NT	NT	NT	NT	NT	NT	0.75 J	0.12 J	0.94 J	0.15 J	NT	NT	0.69 J	0.11 J	0.52 J J+	0.082 J J+	< 1.3	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.53	< 0.13	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	NT	NT	NT	NT	NT	NT	< 0.81	< 0.20	< 0.81	< 0.20	NT	NT	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.52	< 0.13	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.37	< 0.094	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethane,1,1,2,2-		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	1.2 J	0.18 J	< 1.4	< 0.20	< 1.4	< 0.20	< 0.82	< 0.12	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 0.95	< 0.14	< 1.4	< 0.20	3.2	0.47	< 1.4	< 0.20	< 1.4	< 0.20	2.1	0.31	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 0.76	< 0.14	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 0.70	< 0.13	< 1.1	< 0.20	0.54 J	0.10 J	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. FD = Field Duplicate.
6. The samples collected in August 2009, November 2009, February 2010, November 2010, March 2011, and May 2015 were collected over a 24 hour period.

7 NT = Not Tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

J+ The reported result is estimated.

Table 6-2. Chemical Testing Results - Capuano Center Indoor and Outdoor Air
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:		Room 138																									
Sample ID:		RM138		150 GLEN-ROOM 138		150 GLEN-ROOM 138		150 GLEN-ROOM 138		150 GLEN-ROOM 138 (Alpha duplicate)		150 GLEN-RM 138		150 GLEN-RM 139 (FD-Room 138)		150GLEN-ROOM 138		150GLEN-ROOM 139 (FD-Room 138)		150 GLEN-ROOM 138		150GLEN-ROOM 139 (FD-Room 138)		150 GLEN-RM 138		150GLEN-ROOM 139 (FD-Room 138)		150GLEN-RM138	
Sample Date:		1/2/07		1/6/07		1/13/07		1/26/07		1/26/07		2/7/07		2/7/07		3/8/07		3/8/07		4/20/07		4/20/07		5/17/07		5/17/07		7/30/07	
Units:		µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**																												
Volatile Organic Compounds (VOCs)	TO-15																												
Carbon tetrachloride		< 1.3	< 0.20	0.49 J J+	0.078 J J+	0.82 J	0.13 J	0.82 J	0.13 J	< 0.126	< 0.020	0.75 J	0.12 J	0.52 J	0.082 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.61 J	0.097 J
Dichloroethane,1,1-		0.45 J	0.11 J	0.77 J J+	0.19 J J+	0.57 J	0.14 J	0.65 J	0.16 J	< 0.081	< 0.020	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.079	< 0.020	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethene,1,1-		< 0.79	< 0.20	2.1 J+	0.54 J+	< 0.79	< 0.20	< 0.79	< 0.20	< 0.079	< 0.020	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	0.83 J+	0.21 J+	< 0.79	< 0.20	< 0.79	< 0.20	< 0.0819	< 0.020	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethane,1,1,2,2-		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4 J+	< 0.20 J+
Tetrachloroethylene (PCE)		14	2.0	60 J+	8.8 J+	20	3.0	20	3.0	32.6	4.8	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	1.2 J	0.17 J
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 0.109	< 0.020	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		2.3	0.42	7 J+	1.3 J+	3.1	0.57	3.3	0.61	4.26	0.794	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. FD = Field Duplicate.
6. The samples collected in August 2009, November 2009, February 2010, November 2010, March 2011, and May 2015 were collected over a 24 hour period.

7 NT = Not Tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

J+ The reported result is estimated.

Table 6-2. Chemical Testing Results - Capuano Center Indoor and Outdoor Air
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:		Room 138 (continued)																									
Sample ID:		150GLEN-ROOM 139 (FD-Room 138)		150GLEN-RM138		150GLEN-ROOM 139 (FD-Room 138)		150GLEN-RM138		150GLEN-RM139 (FD-Room 138)		150GLEN-RM239 (FD-Room 138)		150GLEN-RM238 (FD-Room 138)		150GLEN-RM138		150GLEN-ROOM 139 (FD-Room 138)		150GLEN-RM238 (FD-Room 138)		150GLEN-RM239 (FD-Room 138)		150GLEN-RM138		150GLEN-RM139 (FD-Room 138)		150GLEN-RM138	
Sample Date:		7/30/07		9/10/07		9/10/07		10/8/07		10/8/07		10/8/07		10/8/07		10/14/07		10/14/07		10/14/07		10/14/07		11/15/07		11/15/07		12/13/07	
Units:		µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**																										
Volatile Organic Compounds (VOCs)	TO-15																										
Carbon tetrachloride		0.69 J	0.11 J	0.69 J	0.11 J	0.69 J	0.11 J	0.69 J	0.11 J	0.88 J	0.14 J	0.82 J	0.13 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.59 J	0.094 J	0.62 J	0.099 J	0.69 J	0.11 J	0.69 J	0.11 J	0.57 J	0.091 J
Dichloroethane,1,1-		< 0.81 J+	< 0.20 J+	< 0.81 J+	< 0.20 J+	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81 J+	< 0.20 J+	< 0.81 J+	< 0.20 J+	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethene,1,1-		< 0.79 J+	< 0.20 J+	< 0.79 J+	< 0.20 J+	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene, cis-1,2-		< 0.79 J+	< 0.20 J+	< 0.79 J+	< 0.20 J+	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethane,1,1,2,2-		< 1.4 J+	< 0.20 J+	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Tetrachloroethylene (PCE)		1.1 J	0.16 J	< 1.4 J+	< 0.20 J+	6.5	0.96	< 1.4	< 0.20	1.5	0.22	1.2 J	0.18 J	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1 J+	< 0.20 J+	< 1.1 J+	< 0.20 J+	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1 J+	< 0.20 J+	< 1.1 J+	< 0.20 J+	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. FD = Field Duplicate.
6. The samples collected in August 2009, November 2009, February 2010, November 2010, March 2011, and May 2015 were collected over a 24 hour period.

7 NT = Not Tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

J+ The reported result is estimated.

Table 6-2. Chemical Testing Results - Capuano Center Indoor and Outdoor Air
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:		Room 138 (continued)																									
Sample ID:		150GLEN-RM139 (FD-Room 138)		150GLEN-RM138		150GLEN-RM139 (FD-Room 138)		150GLEN-RM138		150GLEN-RM139 (FD-Room 138)		150GLEN-RM138		150GLEN-RM139 (FD-Room 138)		150GLEN-RM138		150GLEN-RM139 (FD-Room 138)		150GLEN-RM138		150GLEN-RM139 (FD-Room 138)		150GLEN-RM138		150GLEN-RM139 (FD-Room 138)		150GLEN-RM138	
Sample Date:		12/13/07		1/21/08		1/21/08		2/19/08		2/19/08		2/22/08		2/22/08		3/17/08		3/17/08		4/21/08		4/21/08		8/18/08		8/18/08		11/24/08	
Units:		µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**																												
Volatile Organic Compounds (VOCs)	TO-15																												
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.75 J	0.12 J	0.69 J	0.11 J	0.69 J	0.11 J	0.63 J	0.10 J	0.62 J	0.098 J
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethane,1,1,2,2-		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	1.8	0.27	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. FD = Field Duplicate.
6. The samples collected in August 2009, November 2009, February 2010, November 2010, March 2011, and May 2015 were collected over a 24 hour period.

7 NT = Not Tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

J+ The reported result is estimated.

Table 6-2. Chemical Testing Results - Capuano Center Indoor and Outdoor Air
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:		Room 138 (continued)																									
Sample ID:		150GLEN-RM139 (FD-Room 138)		150GLEN-RM138		150GLEN-RM139 (FD-Room 138)		150GLEN-RM138		150GLEN-RM139 (FD-Room 138)		150GLEN-RM138		150GLEN-RM139 (FD-Room 138)		150GLEN-RM138		150GLEN-RM139 (FD-Room 138)		150GLEN-RM138		150GLEN-RM139 (FD-Room 138)		150GLEN-RM138		150GLEN-RM139 (FD-Room 138)		150GLEN-RM138	
Sample Date:		11/24/08		3/2/09		3/2/09		8/27/09		8/27/09		11/11/09		11/11/09		2/19/10		2/19/10		11/11/10		11/11/10		3/17/11		3/17/11		5/23/15	
Units:		µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**																										
Volatile Organic Compounds (VOCs)	TO-15																										
Carbon tetrachloride		0.63 J	0.10 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.53	< 0.13	< 0.53	< 0.13	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dichloroethene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.52	< 0.13	< 0.52	< 0.13	< 0.79	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.37	< 0.094	< 0.37	< 0.094	< 0.79	< 0.20
Tetrachloroethane,1,1,2,2-		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 0.82	< 0.12	< 0.82	< 0.12	< 1.4	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 0.95	< 0.14	< 0.95	< 0.14	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 0.76	< 0.14	< 0.76	< 0.14	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 0.70	< 0.13	< 0.70	< 0.13	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. FD = Field Duplicate.
6. The samples collected in August 2009, November 2009, February 2010, November 2010, March 2011, and May 2015 were collected over a 24 hour period.

7 NT = Not Tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

J+ The reported result is estimated.

Table 6-2. Chemical Testing Results - Capuano Center Indoor and Outdoor Air
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:		Room 141																									
Sample ID:		150 GLEN-ROOM 141		150GLEN-ROOM 141		150 GLEN-ROOM 141		150 GLEN-RM 141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141	
Sample Date:		1/6/07		3/8/07		4/20/07		5/17/07		7/30/07		9/10/07		10/8/07		10/14/07		11/15/07		12/13/07		1/21/08		2/19/08		2/22/08		3/17/08	
Units:		µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**																										
Volatile Organic Compounds (VOCs)	TO-15																										
Carbon tetrachloride		0.45 J J+	0.071 J J+	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3 J+	< 0.20 J+	0.75 J	0.12 J	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81 J+	< 0.20 J+	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81 J+	< 0.20 J+	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79 J+	< 0.20 J+	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79 J+	< 0.20 J+	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethane,1,1,2,2-		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4 J+	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4 J+	< 0.20 J+	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1 J+	< 0.20 J+	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1 J+	< 0.20 J+	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. FD = Field Duplicate.
6. The samples collected in August 2009, November 2009, February 2010, November 2010, March 2011, and May 2015 were collected over a 24 hour period.

7 NT = Not Tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

J+ The reported result is estimated.

Table 6-2. Chemical Testing Results - Capuano Center Indoor and Outdoor Air
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:		Room 141 (continued)																Room 142											
Sample ID:		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		RM142		150 GLEN-ROOM 142		150 GLEN-RM 142		150GLEN-ROOM 142		150 GLEN-ROOM 142		150 GLEN-RM 142		150GLEN-RM142	
Sample Date:		4/21/08		8/18/08		11/24/08		3/2/09		8/27/09		2/19/10		11/11/10		3/17/11		1/2/07		1/6/07		2/7/07		3/8/07		4/20/07		5/17/07		7/30/07	
Units:		µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**																												
Volatile Organic Compounds (VOCs)	TO-15																												
Carbon tetrachloride		0.69 J	0.11 J	0.60 J	0.096 J	0.63 J	0.10 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	NT	NT	NT	NT	< 1.3	< 0.20	0.52 J J+	0.083 J J+	0.82 J	0.13 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.63 J	0.10 J
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.53	< 0.13	1.4	0.35	1.2 J+	0.29 J+	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	NT	NT	NT	NT	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	1.0	0.25
Dichloroethene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.52	< 0.13	0.87	0.22	2.5 J+	0.63 J+	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.37	< 0.094	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethane,1,1,2,2-		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 0.82	< 0.12	< 1.4	< 0.20	< 1.4 J+	< 0.20 J+	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 0.95	< 0.14	28	4.1	45 J+	6.6 J+	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 0.76	< 0.14	< 1.1	< 0.20	0.33 J J+	0.061 J J+	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	0.62 J	0.092 J	0.62 J	0.092 J	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 0.70	< 0.13	3.7	0.69	5.4 J+	1 J+	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. FD = Field Duplicate.
6. The samples collected in August 2009, November 2009, February 2010, November 2010, March 2011, and May 2015 were collected over a 24 hour period.

7 NT = Not Tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

J+ The reported result is estimated.

Table 6-2. Chemical Testing Results - Capuano Center Indoor and Outdoor Air
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:		Room 142 (cont)																											
Sample ID:		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142	
Sample Date:		9/10/07		10/8/07		10/14/07		11/15/07		12/13/07		1/21/08		2/19/08		2/22/08		3/17/08		4/21/08		8/18/08		11/24/08		3/2/09		8/27/09		11/11/09	
Units:		µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**																												
Volatile Organic Compounds (VOCs)	TO-15																												
Carbon tetrachloride		0.75 J	0.12 J	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.75 J	0.12 J	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethane,1,1,2,2-		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. FD = Field Duplicate.
6. The samples collected in August 2009, November 2009, February 2010, November 2010, March 2011, and May 2015 were collected over a 24 hour period.

7 NT = Not Tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

J+ The reported result is estimated.

Table 6-2. Chemical Testing Results - Capuano Center Indoor and Outdoor Air
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:		Room 142 (continued)								Room 144				Room 145		Room 146													
Sample ID:		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150 GLEN-ROOM 144		150 GLEN-ROOM 144 (Alpha duplicate)		150 GLEN-ROOM 145		150 GLEN-ROOM 146A		150 GLEN-ROOM 146B		150 GLEN-ROOM 146B (FD-Room 146)		RM146		150 GLEN-ROOM 146		150 GLEN-RM 146		150GLEN-ROOM 146		150 GLEN-ROOM 146	
Sample Date:		2/19/10		11/11/10		3/17/11		5/23/15		1/13/07		1/13/07		1/6/07		12/27/06		12/28/06		12/28/06		1/2/07		1/6/07		2/7/07		3/8/07		4/20/07	
Units:		µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**																														
Volatile Organic Compounds (VOCs)	TO-15																														
Carbon tetrachloride		< 1.3	< 0.20	NT	NT	NT	NT	NT	NT	0.88 J	0.14 J	< 3.14	< 0.50	0.45 J J+	0.071 J J+	1.1 J	0.18 J	< 1.3	< 0.20	0.49 J	0.078 J	0.63 J	0.10 J	< 1.3	< 0.20	0.75 J	0.12 J	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.53	< 0.13	< 0.81	< 0.20	< 0.81	< 0.20	< 2.02	< 0.50	< 0.81	< 0.20	10	2.5	3.6	0.88	3.3	0.82	0.53 J	0.13 J	0.57 J J+	0.14 J J+	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	NT	NT	NT	NT	NT	NT	< 0.81	< 0.20	< 1.98	< 0.50	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.52	< 0.13	< 0.79	< 0.20	< 0.79	< 0.20	< 1.98	< 0.50	< 0.79	< 0.20	7.9	2.0	4.0	1.0	3.9	0.99	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.37	< 0.094	< 0.79	< 0.20	< 0.79	< 0.20	< 2.02	< 0.50	< 0.79	< 0.20	3.3	0.83	1.3	0.33	1.2	0.31	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 2.0	< 0.50	< 0.79	< 0.20
Tetrachloroethane,1,1,2,2-		< 1.4	< 0.20	< 1.4	< 0.20	< 0.82	< 0.12	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 0.95	< 0.14	< 1.4	< 0.20	4.1	0.61	4.36	0.643	< 1.4	< 0.20	186	27.5	83.4	12.3	85.4	12.6	11	1.6	26 J+	3.8 J+	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 0.76	< 0.14	< 1.1	< 0.20	< 1.1	< 0.20	< 2.72	< 0.50	< 1.1	< 0.20	2.1	0.38	0.82 J	0.15 J	0.71 J	0.13 J	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 0.70	< 0.13	< 1.1	< 0.20	1.3	0.24	< 2.68	< 0.50	< 1.1	< 0.20	37	6.8	10	1.9	11	2.1	1.7	0.32	3.0 J+	0.56 J+	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. FD = Field Duplicate.
6. The samples collected in August 2009, November 2009, February 2010, November 2010, March 2011, and May 2015 were collected over a 24 hour period.

7 NT = Not Tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

J+ The reported result is estimated.

Table 6-2. Chemical Testing Results - Capuano Center Indoor and Outdoor Air
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

	Sample Location:	Room 146 (continued)																									
	Sample ID:	150 GLEN-RM 146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146	
	Sample Date:	5/17/07		7/30/07		9/10/07		10/8/07		10/14/07		11/15/07		12/13/07		1/21/08		2/19/08		2/22/08		3/17/08		4/21/08		8/18/08		11/24/08	
	Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**																												
Volatile Organic Compounds (VOCs)	TO-15																												
Carbon tetrachloride		< 1.3	< 0.20	0.62 J	0.099 J	0.82 J	0.13 J	< 1.3	< 0.20	0.58 J	0.092 J	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.62 J	0.098 J	< 1.3	< 0.20	0.75 J	0.12 J	0.60 J	0.096 J	0.63 J	0.10 J
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81 J+	< 0.20 J+	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81 J+	< 0.20 J+	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	0.49 J	0.12 J	< 0.81	< 0.20
Dichloroethene,1,1-		< 0.79	< 0.20	< 0.79 J+	< 0.20 J+	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79 J+	< 0.20 J+	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethane,1,1,2,2-		< 1.4	< 0.20	< 1.4 +	< 0.20 J+	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	1.0 J	0.15 J	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1 J+	< 0.20 J+	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1 J+	< 0.20 J+	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. FD = Field Duplicate.
6. The samples collected in August 2009, November 2009, February 2010, November 2010, March 2011, and May 2015 were collected over a 24 hour period.
7 NT = Not Tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 6-2. Chemical Testing Results - Capuano Center Indoor and Outdoor Air
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:		Room 146 (continued)														Outside of School by Room 126 Window						Outside of School by Day Care Window					
Sample ID:		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150 GLEN-0-1A		150 GLEN-0-1B		150 GLEN-0-1A		150 GLEN-0-2A		150 GLEN-0-2B		150 GLEN-0-2A	
Sample Date:		3/2/09		8/27/09		11/11/09		2/19/10		11/11/10		3/17/11		5/23/15		12/27/06		12/28/06		1/6/07		12/27/06		12/28/06		1/6/07	
Units:		µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**																										
Volatile Organic Compounds (VOCs)	TO-15																										
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	NT	NT	NT	NT	NT	NT	< 1.3	< 0.20	< 1.3	< 0.20	0.52 J J+	0.083 J J+	1.1 J	0.17 J	< 1.3	< 0.20	0.52 J J+	0.082 J J+
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.53	< 0.13	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	NT	NT	NT	NT	NT	NT	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.52	< 0.13	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.37	< 0.094	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethane,1,1,2,2-		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 0.82	< 0.12	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 0.95	< 0.14	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	0.93 J	0.17 J	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 0.76	< 0.14	< 1.1	< 0.20	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 0.70	< 0.13	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. FD = Field Duplicate.
6. The samples collected in August 2009, November 2009, February 2010, November 2010, March 2011, and May 2015 were collected over a 24 hour period.

7 NT = Not Tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

J+ The reported result is estimated.

Table 6-2. Chemical Testing Results - Capuano Center Indoor and Outdoor Air
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

	Sample Location:	Downwind on Roof																					
	Sample ID:	150 GLEN-ROOF B		150 GLEN-ROOF B		150GLEN-ROOF		150 GLEN-ROOF		150 GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF	
	Sample Date:	2/8/07		2/8/07		3/8/07		4/20/07		5/17/07		8/9/07		9/10/07		10/14/07		11/14/07		12/17/07		1/21/08		2/19/08	
	Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**																								
Volatile Organic Compounds (VOCs)	TO-15																								
Carbon tetrachloride		< 1.3	< 1.3	< 0.20	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.81	< 0.20	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.81	< 0.20	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethene,1,1-		< 0.79	< 0.79	< 0.20	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.79	< 0.20	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethane,1,1,2,2-		< 1.4	< 1.4	< 0.20	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 1.4	< 0.20	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	1.2 J	0.18 J	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.2	< 1.2	< 0.21	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21
Trichloroethylene (TCE)		< 1.1	< 1.1	< 0.20	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. FD = Field Duplicate.
6. The samples collected in August 2009, November 2009, February 2010, November 2010, March 2011, and May 2015 were collected over a 24 hour period.

7 NT = Not Tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

J+ The reported result is estimated.

Table 6-2. Chemical Testing Results - Capuano Center Indoor and Outdoor Air
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Sample Location:		Downwind on Roof (cont)											
Sample ID:		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF	
Sample Date:		3/17/08		4/21/08		8/18/08		11/24/08		8/27/09		11/11/09	
Units:		µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**												
Volatile Organic Compounds (VOCs)	TO-15												
Carbon tetrachloride		< 1.3	< 0.20	0.69 J	0.11 J	0.63 J	0.10 J	0.63 J	0.10 J	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethane,1,1,2,2-		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. FD = Field Duplicate.
6. The samples collected in August 2009, November 2009, February 2010, November 2010, March 2011, and May 2015 were collected over a 24 hour period.

7 NT = Not Tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

J+ The reported result is estimated.

Table 7-1. Exposure Pathway Mitigation Measure (EPMM) Status
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Property Address	EPMM Design Option	Date Completed or Last Modified	Date of Last Indoor Air Monitoring	Construction Details														
				Ventilation Fan(s) (Model No.) [a]	Fan Replacement Date	Number of Sub-Slab Vapor Extraction Points (SSDS)	Sub-slab Vapor Barrier - HDPE Liner	Sub-Slab Ventilation System - Geocomposite	Sub-Slab Vapor Trench	Foundation Wall Ventilation System - Geocomposite	New Basement Slab Installed	Crawlspace Vapor Barrier	Epoxy Vapor Barrier - Floor	Epoxy Vapor Barrier - Foundation Walls	Telemetry Installed (if necessary)	Reason Telemetry not Installed (if applicable)	AUL Recorded (Yes/No)
91-93 Franklin Street	3	March, 2009	12/19/2025	-	-	-	Yes	Yes	-	-	Yes	-	Yes	Yes	-	-	Yes
95 Franklin Street	2/1[b]	May, 2011	5/16/2013	GP-501	-	2	-	-	Yes	-	-	Yes	Yes	Yes	Yes	-	No
95R Franklin Street	2	December, 2007	3/8/2010	-	-	-	-	-	Yes	Yes	-	Yes	Yes	Yes	-	-	Yes
150 Glen Street (Capuano Center)	1	April, 2015	5/23/2015	GP-501 (3)	August, 2023	18	-	-	-	-	-	-	-	-	Yes	-	No
163 Glen Street	2[c]	July, 2018	8/18/2020	-	-	-	Yes	-	Yes	-	Yes	-	-	-	-	-	No
166-168 Glen Street	3	November, 2010	2/21/2025	-	-	-	Yes	Yes	-	-	Yes	Yes	Yes	Yes	-	-	Yes
9 Knowlton Street	1	January, 2010	3/23/2023	GP-501	April, 2024	5	-	-	-	-	-	-	-	-	No	Refused access	Yes
13 Knowlton Street	1	January, 2010	1/10/2023	GP-501	March, 2018	4	-	-	-	-	-	-	-	-	Yes	-	Yes
17 Knowlton Street	3	March, 2009	3/6/2025	-	-	-	Yes	Yes	-	-	Yes	-	Yes	Yes	-	-	Yes
31-33 Knowlton Street	1	February, 2008	3/19/2010	GP-501	May, 2024	7	-	-	-	-	-	-	-	-	Yes	-	No
32 Knowlton Street	3	May, 2009	12/19/2025	-	-	-	-	-	-	-	-	-	-	-	-	-	Yes
34 Knowlton Street	4	June, 2014	12/19/2025	-	-	-	Yes	-	-	-	Yes	-	-	-	-	-	Yes
35-37 Knowlton Street	3/1[b]	April, 2010	3/11/2011	GP-501	December, 2019	4	Yes	Yes	-	-	Yes	-	Yes	Yes	Yes	-	No
4 Morton Street	3	November, 2008	3/20/2012	-	-	-	Yes	Yes	-	-	Yes	-	Yes	Yes	-	-	No
10 Morton Street	4[e]	September, 2024	3/18/2025	-	-	-	Yes	Yes	-	-	Yes	-	Yes	Yes	-	-	Yes
11 Morton Street	2	November, 2008	12/19/2025	-	-	-	-	-	Yes	Yes	-	-	Yes	Yes	-	-	Yes
12 Morton Street	3	March, 2008	11/19/2010	-	-	-	Yes	Yes	-	-	Yes	-	Yes	Yes	-	-	Yes
13 Morton Street	1	October, 2008	9/17/2014	GP-501	November, 2023	5	-	-	-	-	-	-	-	-	Yes	-	No
18 Morton Street	1	July, 2007	2/24/2011	GP-501	June, 2023	5	-	-	-	-	-	-	-	-	Yes	-	No
19-19A Morton Street	3	August, 2009	12/19/2025	-	-	-	-	-	-	-	-	-	-	-	-	-	Yes
23 Tufts Street	1	May, 2007	2/25/2010	GP-501	-	1	-	-	-	-	-	-	-	-	Yes	-	No
27 Tufts Street	3/1[b]	May, 2011	5/23/2013	GP-501	-	3	Yes	Yes	-	-	Yes	Yes	Yes	Yes	Yes	-	No
31 Tufts Street	4	October, 2022	2/19/2025	-	-	-	Yes	Yes	-	-	Yes	-	-	-	-	-	No
50 Tufts Street	1	August, 2007	3/11/2015	Regenerative Blower	-	22	-	-	-	-	-	-	Yes	-	Yes	-	No
60 Tufts Street	1	April, 2009	1/8/2026	Regenerative Blower	-	14	-	-	-	-	-	-	-	-	Yes	-	No
103 Washington Street	(d)	-	2/21/2025	-	-	-	-	-	-	-	-	-	-	-	-	-	No
121 Washington	4	December, 2024	Pending	-	-	-	Yes	Yes	-	-	Yes	-	-	-	-	-	No

General Notes:

1. NS = Not sampled.
2. - = Not Applicable.

Footnotes:

(a) Ventilation fans manufactured by Radon Away.
(b) An Option 2 or 3 EPMM was initially installed at these properties; however, a fan was added to the EPMM to improve performance. Therefore, these EPMMs consist of Option 1 with Option 2 or 3 EPMM elements.
(c) EPMM demonstrated to be no longer required based on testing requirements in the MassDEP Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure, Policy #WSC-16-435 (Section 3.7 and Tables 3-1 and 3-2).
(d) EPMM eliminated during demolition and not installed in redevelopment
(e) An Option 3 EPMM was initially installed at 10 Morton Street in March 2009; however, a new EPMM was installed during renovations.

Table 7-2. Indoor Air Sampling and EPMM Monitoring - June 16, 2025 through December 15, 2025
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
Residential and Commercial Properties
Somerville, Massachusetts

Property	Property Type	Indoor Air Sampling	EPMM Inspection
84 Franklin Street	Residential	Not Sampled	--
91-93 Franklin Street	Residential	12/19/25	12/19/25
95 Franklin Street	Residential	Not Sampled	NA
95R Franklin Street	Residential	Not Sampled	NA
97 Franklin Street	Residential	Not Sampled	--
156 Glen Street	Residential	Not Sampled	--
163 Glen Street	Residential	Not Sampled	NA
166-168 Glen Street	Residential	Not Sampled	NA
9 Knowlton Street	Residential	Not Sampled	NA
13 Knowlton Street	Residential	Not Sampled	NA
17 Knowlton Street	Residential	Not Sampled	NA
32 Knowlton Street	Residential	12/19/25	12/19/25
34 Knowlton Street	Residential	12/19/25	12/19/25
31-33 Knowlton Street	Residential	Not Sampled	NA
35-37 Knowlton Street	Residential	Not Sampled	NA
4 Morton Street	Residential	Not Sampled	NA
10 Morton Street	Residential	Not Sampled	NA
11 Morton Street	Residential	7/16/25, 8/21/25, 8/29/25, and 12/19/25	12/19/25
12 Morton Street	Residential	Not Sampled	12/19/25
13 Morton Street	Residential	Not Sampled	12/18/25
18 Morton Street	Residential	Not Sampled	12/19/25
19-19A Morton Street	Residential	12/19/25	12/19/25
21 Morton Street	Residential	Not Sampled	--
23 Tufts Street	Residential	Not Sampled	NA
27 Tufts Street	Residential	Not Sampled	NA
31 Tufts Street	Residential	Not Sampled	NA
103 Washington	Residential/Commercial	Not Sampled	--
105-107 Washington Street	Residential/Commercial	Not Sampled	--
121 Washington Street	Residential/Commercial	Not Sampled	NA

General Notes:

1. EPMM = Exposure Pathway Mitigation Measure.
2. See Appendix E for Air Sampling Checklists and Appendix H for EPMM forms.
3. See Section 6 for a description of EPMM Inspection activities. 60 Tufts Street EPMM is inspected quarterly; see Section 7.
4. NA = No inspection was performed during this reporting period.
5 SSDS = Sub-slab depressurization system.
6. Properties identified with -- indictes no EPMM installed

Table 8-1. Summary of SSDS Monitoring Events - 60 Tufts Street
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Monitoring Date	Monitoring Event per RMR Report Period	Type of Monitoring Event	SSDS Field Parameters Measured	Analytical Samples Collected (Yes/No)?
7/9/2025	1	SSDS Quarterly Monitoring	-Pressure readings and VOC concentrations at system influent/effluent and blower. -System flow rate.	No

General Notes:

1. SSDS = Sub-Slab Depressurization System.
2. RMR = Remedial Monitoring Report.
3. VOC = Volatile Organic Compound.
4. VOC measurements collected with a ppm-RAE calibrated to 100 ppm isobutylene gas.
5. Pressure readings collected using a Dwyer 475-000-FM manometer.

Table 9-1. Summary of SSDS Monitoring Events - 50 Tufts Street
Phase V Status Report No. 29 and Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

Monitoring Date	Monitoring Event per RMR Report Period	Type of Monitoring Event	SSDS Field Parameters Measured	Analytical Samples Collected (Yes/No)?
7/9/2025	1	SSDS Quarterly Monitoring	-Pressure readings and VOC concentrations at the combined influent, and effluent pipes. -Pressure readings and VOC concentrations at carbon tanks. -System flow rate.	No
8/20/2025	2	SSDS Monthly Monitoring	-VOC concentrations at the combined influent, and effluent pipes. -VOC concentrations at carbon tanks.	No
9/17/2025	3	SSDS Monthly Monitoring	-VOC concentrations at the combined influent, and effluent pipes. -VOC concentrations at carbon tanks.	No
10/9/2025	4	SSDS Quarterly Monitoring	-Pressure readings and VOC concentrations at the combined influent, and effluent pipes. -Pressure readings and VOC concentrations at carbon tanks. -System flow rate.	No
11/10/2025	5	SSDS Monthly Monitoring	-VOC concentrations at the combined influent, and effluent pipes. -VOC concentrations at carbon tanks.	No
12/12/2025	6	SSDS Monthly Monitoring	-VOC concentrations at the combined influent, and effluent pipes. -VOC concentrations at carbon tanks.	No

General Notes:
1. SSDS = Sub-Slab Depressurization System.
2. RMR = Remedial Monitoring Report.
3. VOC = Volatile Organic Compound.
4. VFD = Variable Flow Drive.
5. SVT/SVE = Soil Vapor Temporary Point/Soil Vapor Extraction.
6. VOC measurements collected with a ppm-RAE calibrated to 100 parts per million (ppm) with 10.6V lamp.
7. Pressure readings collected using a Dwyer 475-000-FM manometer.

Figures

Figure 1-1 Site Location Map

Figure 1-2 Disposal Site Map and Site Boundary

Figure 4-1 Monitoring Well Locations

Figure 4-2 Soil PCE Results – MW403 and MW404

Figure 5-1 Sub-Slab Soil Vapor and Indoor Air Sampling

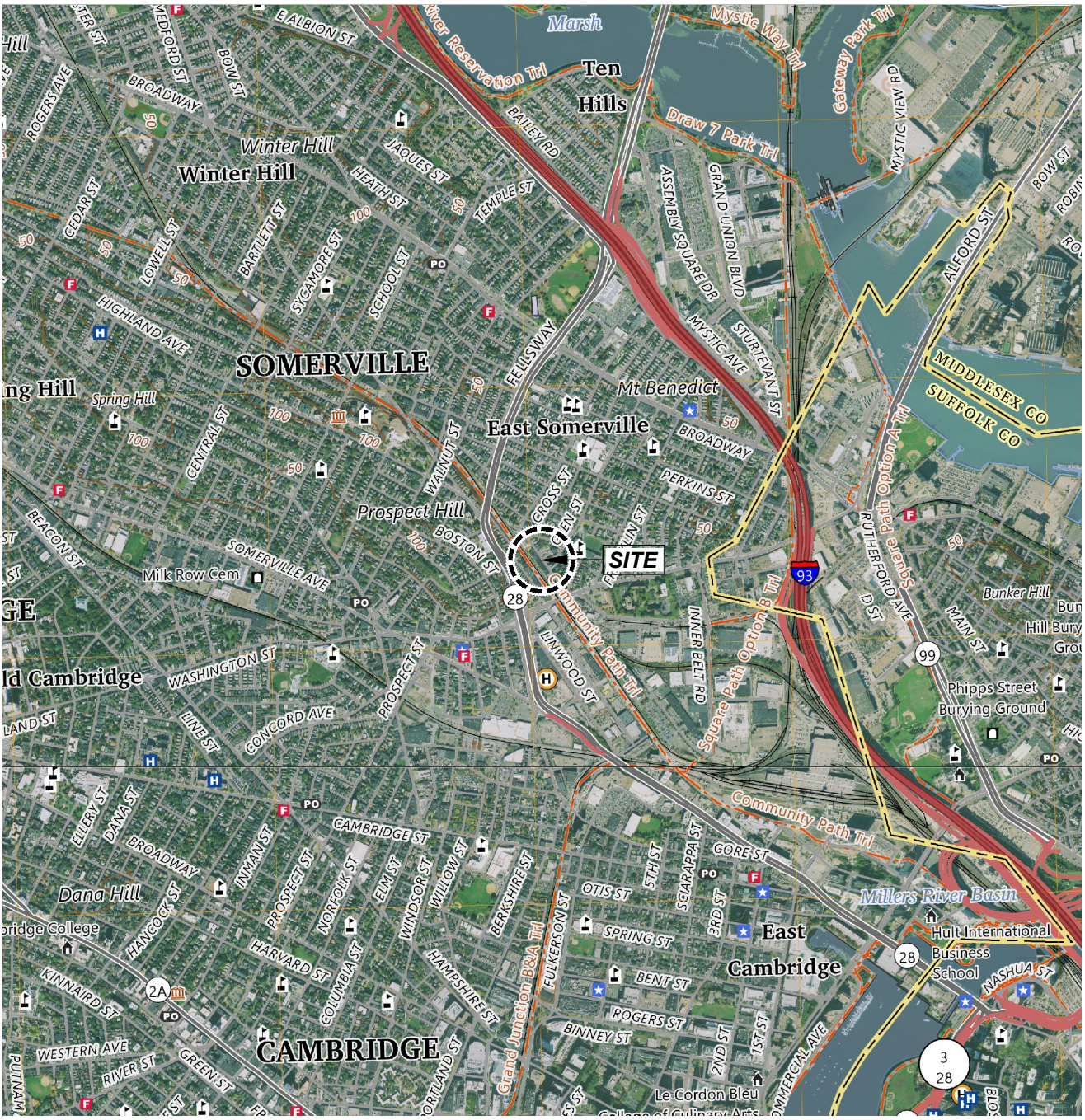
Figure 7-1 EPMM Installation Progress

Figure 7-2 EPMM Mitigation Flow Chart

Figure 7-3 Permanent Solution Status

Figure 9-1 Combined Influent VOC Concentrations and Cumulative VOC Removal

Figure 11-1 50 Tufts Street Shallow Soil Boring Plan



0 1000 2000 4000 6000

SCALE, FEET

QUADRANGLE LOCATION

This Image is from U.S.G.S. Topographic 7.5 Minute Series
Boston North, MA Quadrangle, 2024.
Datum is North American Vertical Datum of 1988 (NAVD88).
Contour Interval is 10 Feet.

Phase V Status Report No. 29 and Remedial Monitoring Report No. 44 50 Tufts Street Somerville, Massachusetts	GEI Consultants	SITE LOCATION MAP
UniFirst Corporation Wilmington, Massachusetts	Project 04516-3	February 2026 Fig. 1-1

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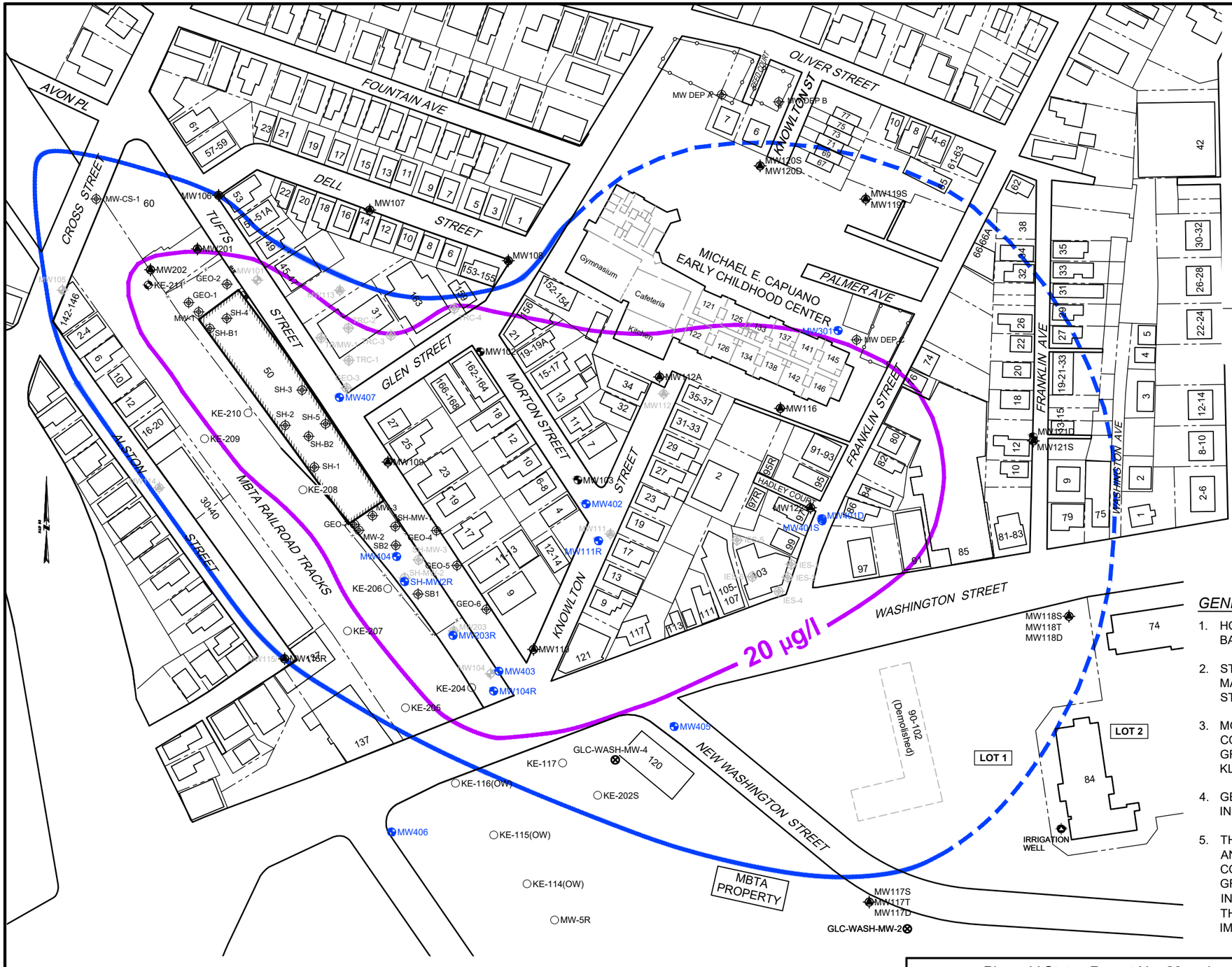

LEGEND:

- MONITORING WELL INSTALLED BY TRC, 2014
- BORING BY KLEINFELDER, MARCH 2014 AND APRIL 2014
- MONITORING WELL BY KLEINFELDER, SEPTEMBER 2012, MARCH 2014, AND APRIL 2014
- MONITORING WELL WITH SOIL VAPOR SAMPLE PORT INSTALLED BY GEI, JANUARY 2007 - JANUARY 2008
- MONITORING WELL INSTALLED BY GEI, MAY 2006
- MONITORING WELL INSTALLED BY GEI, MAY 2022, MARCH 2024, OCTOBER 2024, & JANUARY, OCTOBER, & DECEMBER 2025
- PREVIOUSLY INSTALLED IRRIGATION WELL
- GLXC WELL INSTALLED AUGUST 2020
- WELLS IN GRAY HAVE BEEN DESTROYED OR DECOMMISSIONED
- CHAIN LINK FENCE
- 138 ROOM NUMBER AT CAPUANO SCHOOL
- BOUNDARY OF COMMUNITY GARDENS
- 84 STREET ADDRESS
- MBTA = MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
- DISPOSAL SITE BOUNDARY (DASHED WHERE INFERRED)
- EXTENT OF PCE CONCENTRATION IN SHALLOW GROUNDWATER GREATER THAN OR EQUAL TO 20 µg/l
- µg/l = MICROGRAMS PER LITER

GENERAL NOTES:

1. HORIZONTAL CONTROL FOR THIS PLAN WAS ESTABLISHED BY GPS AND IS BASED ON THE NORTH AMERICAN DATUM OF 1983.
2. STREET AND PROPERTY LINES BASED ON SOMERVILLE ASSESSORS' MAPS AND ARE BEST FIT RELATIVE TO THE LOCATION OF THE 50 TUFTS ST. BUILDING.
3. MONITORING WELL LOCATIONS AND ELEVATIONS, AND CAPUANO CENTER COMMUNITY GARDEN LOCATIONS WERE ESTABLISHED BY ON THE GROUND SURVEYS BY BSC GROUP, INC. OR INFORMATION PROVIDED BY KLEINFELDER.
4. GEI OBSERVED DECOMMISSIONING OF SH-MW1 AND SH-1 THROUGH SH-5 IN 2007.
5. THE 20 µg/l BOUNDARY LINE IS BASED ON SHALLOW GROUNDWATER ANALYTICAL RESULTS (0 TO 15 FEET BELOW GROUND SURFACE) COLLECTED THROUGH NOVEMBER 2022. KE-204 IS A WELL SCREENED GREATER THAN 15 FEET BELOW GROUND SURFACE, BUT HAS BEEN INCLUDED IN THE 20 µg/l BOUNDARY LINE BECAUSE OF UNCERTAINTY ON THE SHALLOW GROUNDWATER CONCENTRATIONS WITHIN THE IMMEDIATE VICINITY OF THIS WELL.

Phase V Status Report No. 29 and
Remedial Monitoring Report No. 44
50 Tufts Street Somerville, Massachusetts

UniFirst Corporation
Wilmington, Massachusetts

GEI Consultants

DISPOSAL SITE MAP AND SITE BOUNDARY

Project 045163 | February 2026 | Fig. 1-2

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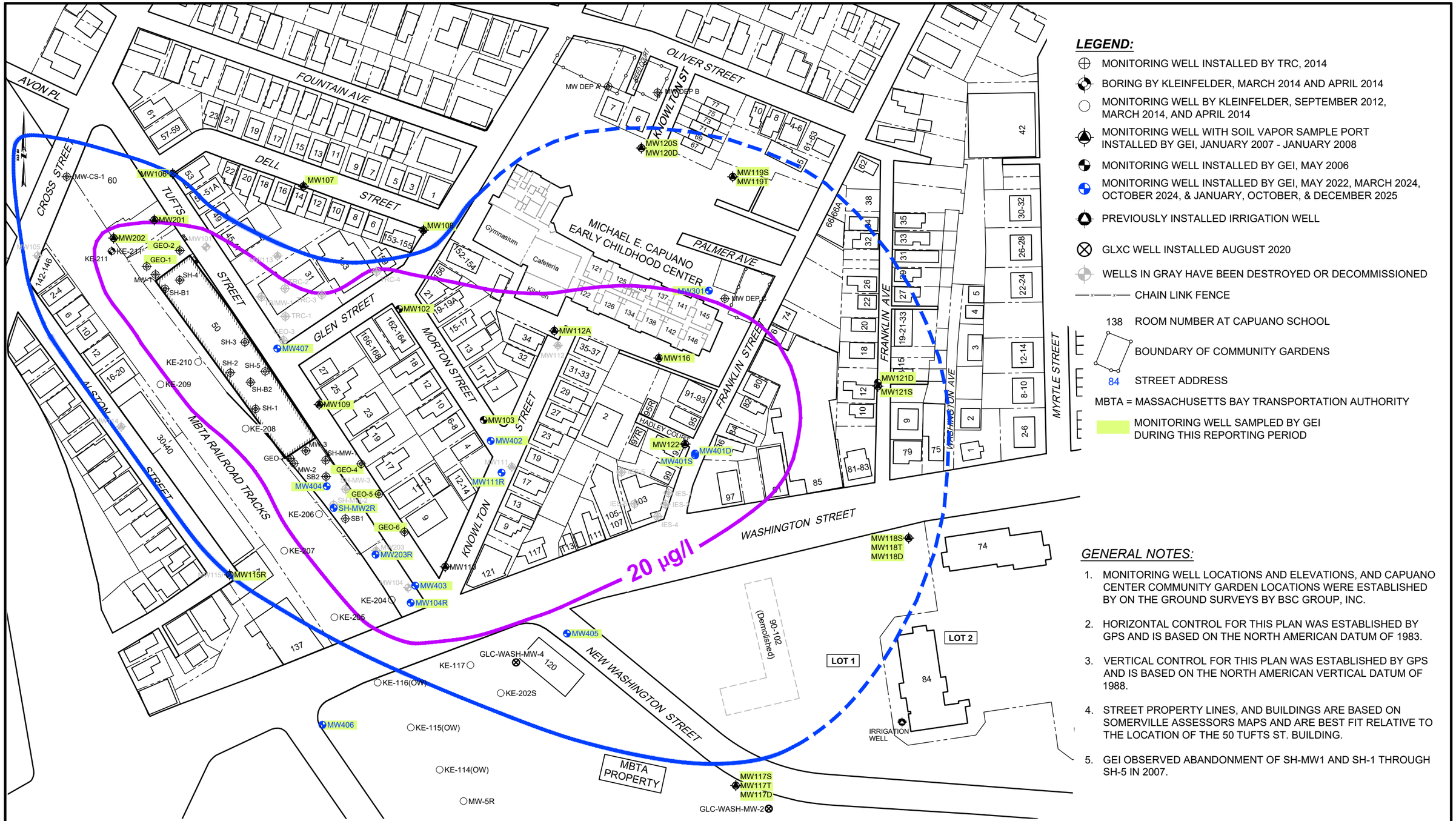


LEGEND:

- MONITORING WELL INSTALLED BY TRC, 2014
- BORING BY KLEINFELDER, MARCH 2014 AND APRIL 2014
- MONITORING WELL BY KLEINFELDER, SEPTEMBER 2012, MARCH 2014, AND APRIL 2014
- MONITORING WELL WITH SOIL VAPOR SAMPLE PORT INSTALLED BY GEI, JANUARY 2007 - JANUARY 2008
- MONITORING WELL INSTALLED BY GEI, MAY 2006
- MONITORING WELL INSTALLED BY GEI, MAY 2022, MARCH 2024, OCTOBER 2024, & JANUARY, OCTOBER, & DECEMBER 2025
- PREVIOUSLY INSTALLED IRRIGATION WELL
- GLXC WELL INSTALLED AUGUST 2020
- WELLS IN GRAY HAVE BEEN DESTROYED OR DECOMMISSIONED
- CHAIN LINK FENCE
- 138 ROOM NUMBER AT CAPUANO SCHOOL
- BOUNDARY OF COMMUNITY GARDENS
- 84 STREET ADDRESS
- MBTA = MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
- MONITORING WELL SAMPLED BY GEI DURING THIS REPORTING PERIOD

GENERAL NOTES:

1. MONITORING WELL LOCATIONS AND ELEVATIONS, AND CAPUANO CENTER COMMUNITY GARDEN LOCATIONS WERE ESTABLISHED BY ON THE GROUND SURVEYS BY BSC GROUP, INC.
2. HORIZONTAL CONTROL FOR THIS PLAN WAS ESTABLISHED BY GPS AND IS BASED ON THE NORTH AMERICAN DATUM OF 1983.
3. VERTICAL CONTROL FOR THIS PLAN WAS ESTABLISHED BY GPS AND IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
4. STREET PROPERTY LINES, AND BUILDINGS ARE BASED ON SOMERVILLE ASSESSORS MAPS AND ARE BEST FIT RELATIVE TO THE LOCATION OF THE 50 TUFTS ST. BUILDING.
5. GEI OBSERVED ABANDONMENT OF SH-MW1 AND SH-1 THROUGH SH-5 IN 2007.

Phase V Status Report No. 29 and
Remedial Monitoring Report No. 44
50 Tufts Street Somerville, Massachusetts

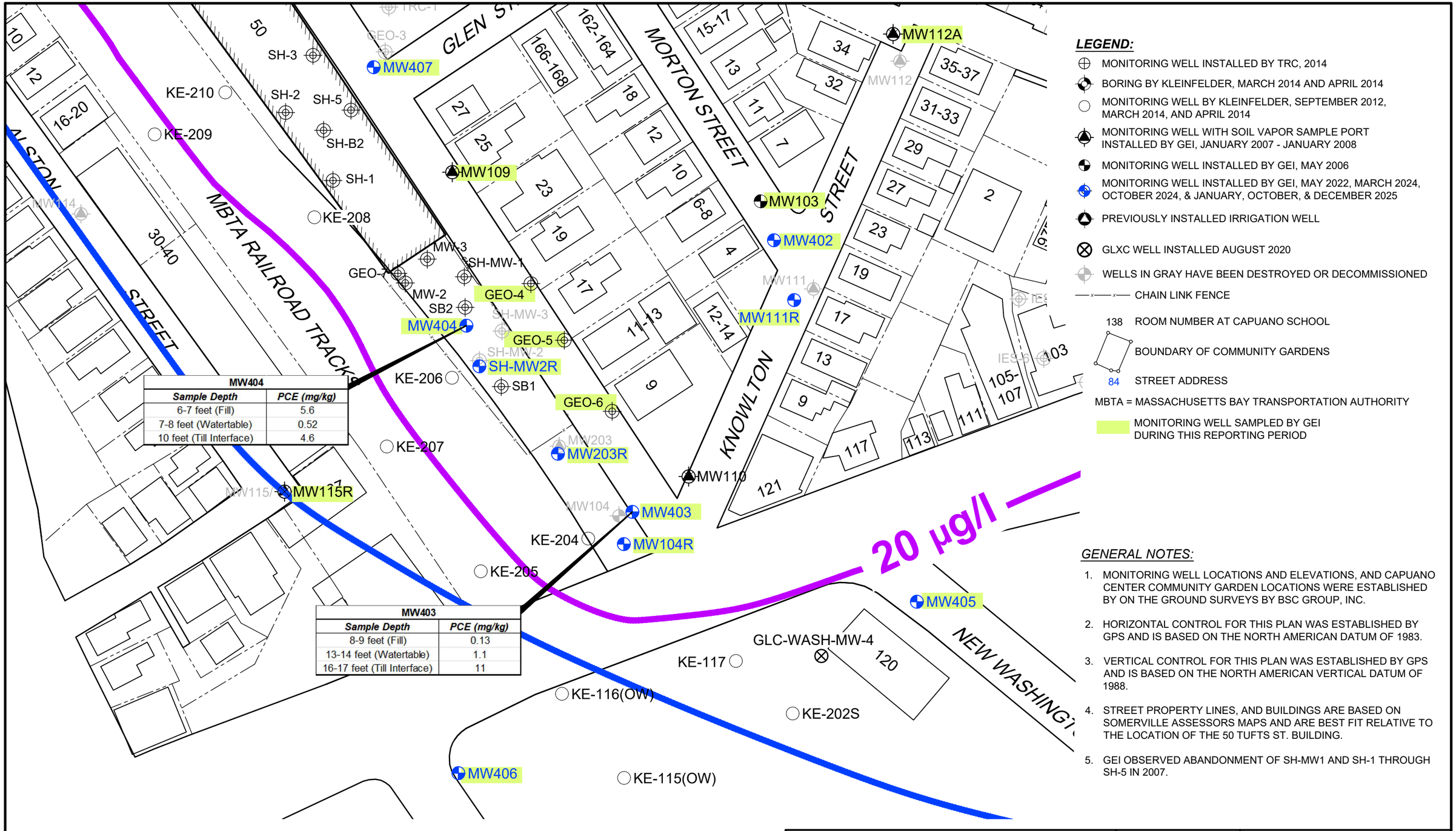
UniFirst Corporation
Wilmington, Massachusetts

GEI Consultants

MONITORING WELL LOCATIONS

Project 045163 | February 2026 | Fig. 4-1

B:\Private\04516\#Drafting\04516-3\Phase V SRs & RMRs\045163 PhV SR MW Loc



LEGEND:

- MONITORING WELL INSTALLED BY TRC, 2014
- BORING BY KLEINFELDER, MARCH 2014 AND APRIL 2014
- MONITORING WELL BY KLEINFELDER, SEPTEMBER 2012, MARCH 2014, AND APRIL 2014
- MONITORING WELL WITH SOIL VAPOR SAMPLE PORT INSTALLED BY GEI, JANUARY 2007 - JANUARY 2008
- MONITORING WELL INSTALLED BY GEI, MAY 2006
- MONITORING WELL INSTALLED BY GEI, MAY 2022, MARCH 2024, OCTOBER 2024, & JANUARY, OCTOBER, & DECEMBER 2025
- PREVIOUSLY INSTALLED IRRIGATION WELL
- GLXC WELL INSTALLED AUGUST 2020
- WELLS IN GRAY HAVE BEEN DESTROYED OR DECOMMISSIONED
- CHAIN LINK FENCE
- 138 ROOM NUMBER AT CAPUANO SCHOOL
- BOUNDARY OF COMMUNITY GARDENS
- 84 STREET ADDRESS

MBTA = MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

MONITORING WELL SAMPLED BY GEI DURING THIS REPORTING PERIOD

GENERAL NOTES:

1. MONITORING WELL LOCATIONS AND ELEVATIONS, AND CAPUANO CENTER COMMUNITY GARDEN LOCATIONS WERE ESTABLISHED BY ON THE GROUND SURVEYS BY BSC GROUP, INC.
2. HORIZONTAL CONTROL FOR THIS PLAN WAS ESTABLISHED BY GPS AND IS BASED ON THE NORTH AMERICAN DATUM OF 1983.
3. VERTICAL CONTROL FOR THIS PLAN WAS ESTABLISHED BY GPS AND IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
4. STREET PROPERTY LINES, AND BUILDINGS ARE BASED ON SOMERVILLE ASSESSORS MAPS AND ARE BEST FIT RELATIVE TO THE LOCATION OF THE 50 TUFTS ST. BUILDING.
5. GEI OBSERVED ABANDONMENT OF SH-MW1 AND SH-1 THROUGH SH-5 IN 2007.

Phase V Status Report No. 29 and
Remedial Monitoring Report No. 44
50 Tufts Street Somerville, Massachusetts

UniFirst Corporation
Wilmington, Massachusetts

GEI Consultants

SOIL PCE RESULTS -
MW403 AND MW404

Project 045163 | February 2026 | Fig. 4-2

B:\Private\04516\#Drafting\04516-3\Phase V SRs & RMRs\045163-04

LEGEND:

- Indoor Air Sampled
- Soil Vapor Sampled

NOTES:

1. Site features are approximate.

0 100 200

SCALE, FEET

Phase V Status Report No. 29 and
Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

UniFirst Corporation
Wilmington, Massachusetts

GEI

Project 04516-3

SUB-SLAB SOIL VAPOR AND INDOOR AIR SAMPLING

February 2026 Fig. 5-1

ADAFIN3452 B:\Private\04516\20.0 GIS Data\GPS\045163 - Bibler - 50 Tufts Street\045163 - Bibler - 50 Tufts Street.aprx - 1/6/2026

LEGEND:

- EPMM Installed (Active)
- EPMM Installed (Passive)
- EPMM Installed (Passive) - No Longer Required

NOTES:

1. Site features are approximate.
2. EPMM = Exposure Pathway Mitigation Measure.

0 100 200

SCALE, FEET

Phase V Status Report No. 29 and
Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

UniFirst Corporation
Wilmington, Massachusetts

GEI

Project 04516-3

EPMM INSTALLATION PROGRESS

February 2026 Fig. 7-1

ADAFIN3452 B:\Private\04516\20.0 GIS Data\GPS\045163 - Bibler - 50 Tufts Street\045163 - Bibler - 50 Tufts Street.aprx - 1/2/2026

Preferred Criteria For:

Option 1 (SSDS):

1. Competent concrete slab
2. Poured concrete foundation
3. Granular sub-grade (good sub-slab air flow)

Option 2 (Vapor Trench):

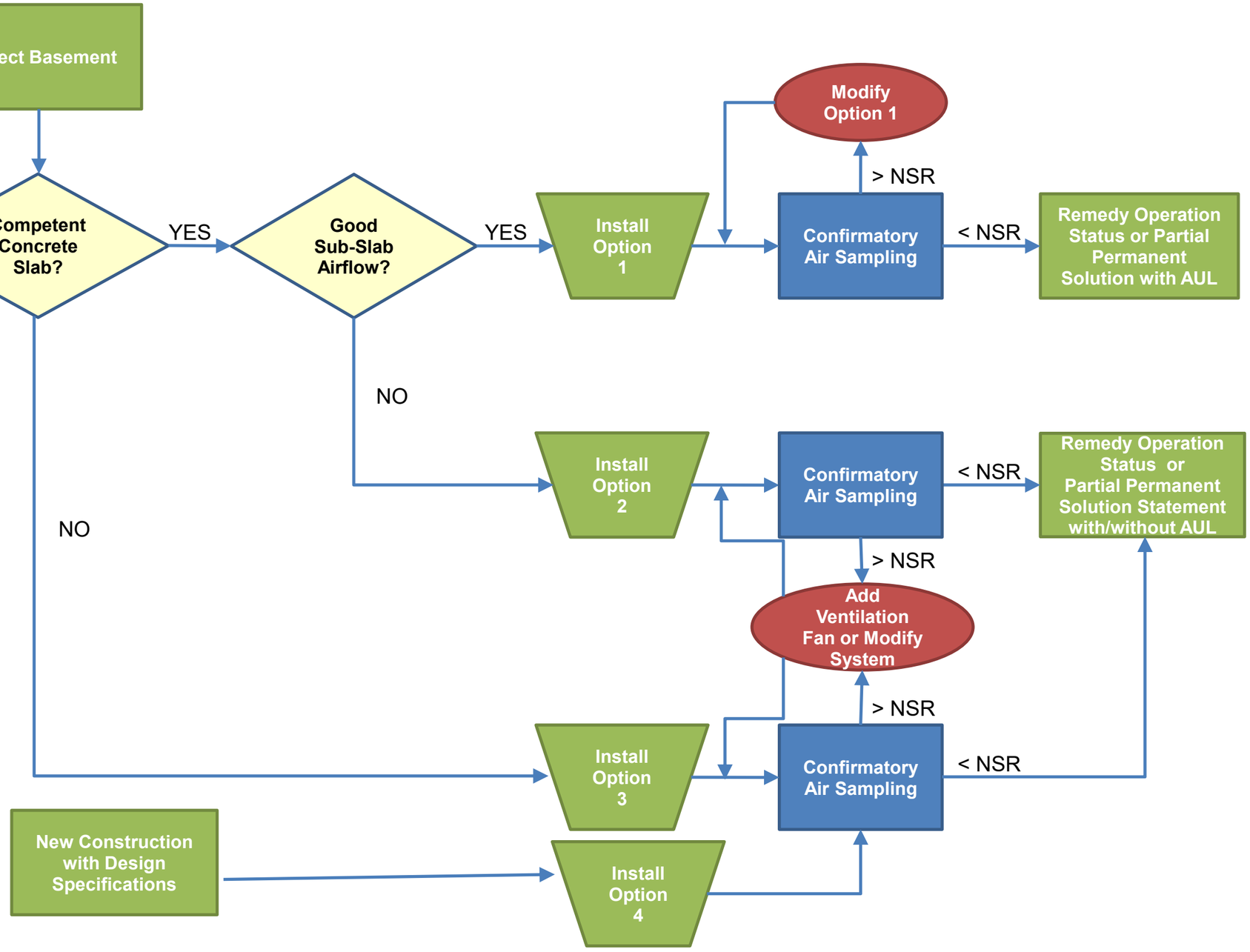
1. Competent concrete slab
2. Silt/clay sub-grade (poor sub-slab air flow)

Option 3 (New Slab Installation):

1. Incompetent concrete slab
2. Silt/clay sub-grade (poor sub-slab air flow)

Option 4 (New Construction):

1. New construction



NSR = No Significant Risk

Phase V Status Report No. 29 and Remedial Monitoring Report No. 44 50 Tufts Street, Somerville, Massachusetts	GEI Consultants	EPMM MITIGATION FLOW CHART
UniFirst Corporation Wilmington, Massachusetts	Project 04516-3	February 2026 Fig. 7-2

LEGEND:

Disposal Site Boundary
(Dashed Where Inferred)

Permanent Solution Status

Permanent Solution With Conditions
Partial Statement Submitted

Permanent Solution Without Conditions
Partial Statement Submitted

Active Exposure Pathway Mitigation Measure

NOTES:

1. Site features are approximate.

0 150 300
SCALE, FEET

Phase V Status Report No. 29 and
Remedial Monitoring Report No. 44
50 Tufts Street
Somerville, Massachusetts

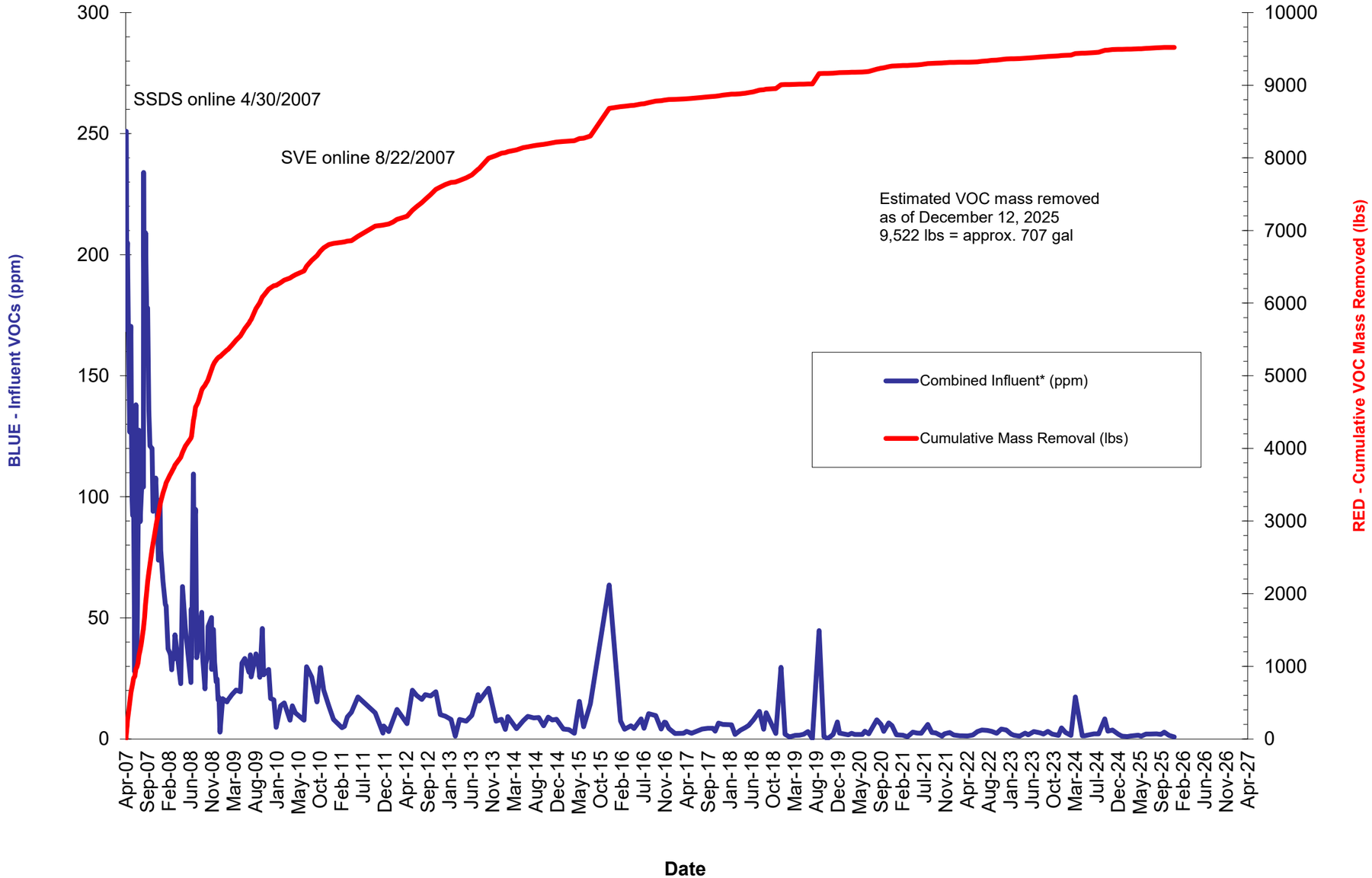
UniFirst Corporation
Wilmington, Massachusetts

GEI

PERMANENT SOLUTION STATUS

Project 04516-3 | February 2026 | Fig. 7-3

ADAFIN3452 B:\Private\04516\20.0 GIS Data\GPS\045163 - Bibler - 50 Tufts Street\045163 - Bibler - 50 Tufts Street.aprx - 1/2/2026



General Notes:

lbs = pounds.

PCE = tetrachloroethylene (perchloroethylene).

ppm = parts per million.

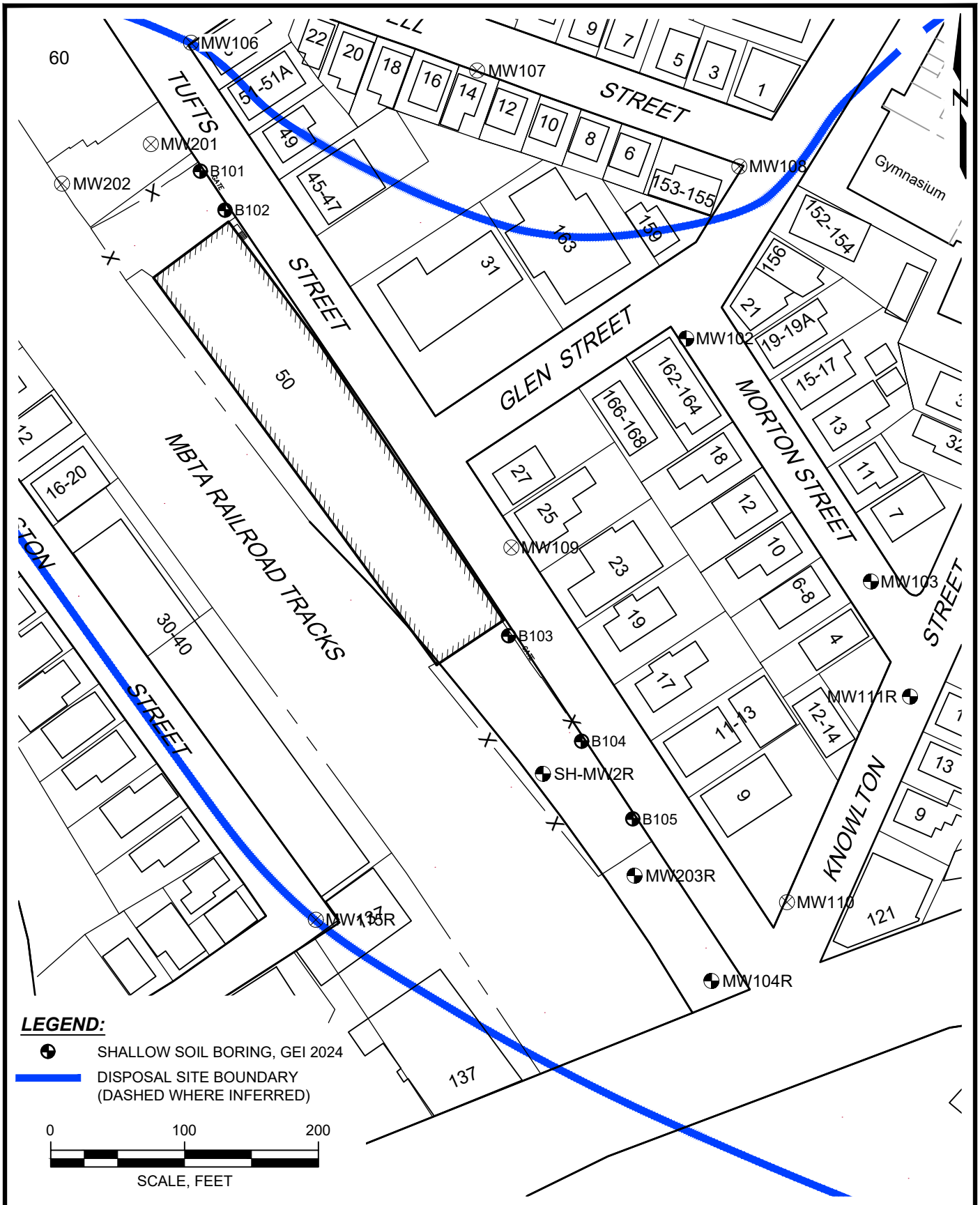
SSDS = sub-slab depressurization system.

SVE = soil vapor extraction system.

VOC = volatile organic compound.

*Influent concentrations measured by a photoionization detector (PID).

Phase V Status Report No. 29 and Remedial Monitoring Report No. 44 50 Tufts Street, Somerville, Massachusetts	GEI Consultants	COMBINED INFLUENT VOC CONCENTRATIONS AND CUMULATIVE VOC REMOVAL
UniFirst Corporation Wilmington, Massachusetts	Project 04516-3	February 2026 Fig. 9-1



Phase V Status Report No. 29 and Remedial Monitoring Report No. 44 50 Tufts Street Somerville, Massachusetts	GEI Consultants	50 TUFTS STREET SHALLOW SOIL BORING PLAN
UniFirst Corporation Wilmington, Massachusetts	Project 045163	February 2026 Fig. 11-1

CLINGEN, PAUL B:\Private\04516\#Drafting\04516-3\Phase V SRs & RMRs\045163 PhV SR SHALLOW BORINGS.dwg - 12/22/2025

Appendix A MassDEP Transmittal Forms (BWSC-108, BWSC-108As, and BWSC-108Bs)

Comprehensive Response Action Transmittal Forms:

- **BWSC-108A 1 of 6 (50 Tufts SSDS)**
- **BWSC-108B 1 of 6 (50 Tufts SSDS)**
- **BWSC-108A 2 of 6 (50 Tufts SVE)**
- **BWSC-108B 2 of 6 (50 Tufts SVE)**
- **BWSC-108A 3 of 6 (Capuano Center)**
- **BWSC-108B 3 of 6 (Capuano Center)**
- **BWSC-108A 4 of 6 (60 Tufts)**
- **BWSC-108B 4 of 6 (60 Tufts)**
- **BWSC-108A 5 of 6 (Residences)**
- **BWSC-108B 5 of 6 (Residences)**
- **BWSC-108A 6 of 6 (MNA)**

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC 108

Release Tracking Number
3 - 23246

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

A. SITE LOCATION:

1. Site Name: 50 TUFTS ST & PROP ACROSS THE ST

2. Street Address: 50 TUFTS ST

3. City/Town: SOMERVILLE 4. ZIP Code: 021454129

☑ 5. Check here if the disposal site that is the source of the release is Tier Classified. Check the current Tier Classification Category:

☐ a. Tier I ☐ b. Tier ID ☑ c. Tier II

B. THIS FORM IS BEING USED TO: (check all that apply)

☐ 1. Submit a **Phase I Completion Statement,** pursuant to 310 CMR 40.0484.

☐ 2. Submit a **Revised Phase I Completion Statement,** pursuant to 310 CMR 40.0484.

☐ 3. Submit a **Phase II Scope of Work,** pursuant to 310 CMR 40.0834.

☐ 4. Submit [illegible] **interim Phase II Report.** This report does not satisfy the response action deadline requirements in 310 CMR [illegible].

☐ 5. Submit a **final Phase II Report and Completion Statement,** pursuant to 310 CMR 40.0836.

☐ 6. Submit a **Revised Phase II Report and Completion Statement,** pursuant to 310 CMR 40.0836.

☐ 7. Submit a **Phase III Remedial Action Plan and Completion Statement,** pursuant to 310 CMR 40.0862.

☐ 8. Submit a **Revised Phase III Remedial Action Plan and Completion Statement,** pursuant to 310 CMR 40.0862.

☐ 9. Submit a **Phase IV Remedy Implementation Plan,** pursuant to 310 CMR 40.0874.

☐ 10. Submit a **Modified Phase IV Remedy Implementation Plan,** pursuant to 310 CMR 40.0874.

☐ 11. Submit an **As-Built Construction Report,** pursuant to 310 CMR 40.0875.

☐ 12. Submit a **Phase IV Status Report,** pursuant to 310 CMR 40.0877.

☐ 13. Submit a **Phase IV Completion Statement,** pursuant to 310 CMR 40.0878 and 40.0879.

Specify the outcome of Phase IV activities: (check one)

☐ a. Phase V Operation, Maintenance or Monitoring of the Comprehensive Remedial Action is necessary to achieve a Permanent or Temporary Solution.

☐ b. The requirements of a Permanent Solution have been met. A completed Permanent Solution Statement and Report (BWSC104) will be submitted to DEP.

☐ c. The requirements of a Temporary Solution have been met. A completed Temporary Solution Statement and Report (BWSC104) will be submitted to DEP.

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B. THIS FORM IS BEING USED TO (cont.): (check all that apply)

☐ 14. Submit a **Revised Phase IV Completion Statement,** pursuant to 310 CMR 40.0878 and 40.0879.

☑ 15. Submit a **Phase V Status Report,** pursuant to 310 CMR 40.0892.

☑ 16. Submit a **Remedial Monitoring Report.** (This report can only be submitted through eDEP.)

a. Type of Report: (check one) ☐ i. Initial Report ☑ ii. Interim Report ☐ iii. Final Report

b. Frequency of Submittal: (check all that apply)

☐ i. A Remedial Monitoring Report(s) submitted monthly to address an Imminent Hazard.

☐ ii. A Remedial Monitoring Report(s) submitted monthly to address a Condition of Substantial Release Migration.

☑ iii. A Remedial Monitoring Report(s) submitted every six months, concurrent with a Status Report.

☐ iv. A Remedial Monitoring Report(s) submitted, concurrent with a Status Report.

c. Status of Site: (check one) ☐ i. Phase IV ☑ ii. Phase V ☐ iii. Remedy Operation Status ☐ iv. Temporary Solution

d. Number of Remedial Systems and/or Monitoring Programs: 6

A separate BWSC108A, CRA Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program addressed by this transmittal form.

☐ 17. Submit a **Remedy Operation Status,** pursuant to 310 CMR 40.0893.

☐ 18. Submit a **Status Report to maintain a Remedy Operation Status,** pursuant to 310 CMR 40.0893(2).

☐ 19. Submit a **Transfer and/or a Modification of Persons Maintaining a Remedy Operation Status (ROS),** pursuant to 310 CMR 40.0893(5) (check one, or both, if applicable).

☐ a. Submit a Transfer of Persons Maintaining an ROS (the transferee should be the person listed in Section D, "Person Undertaking Response Actions").

☐ b. Submit a Modification of Persons Maintaining an ROS (the primary representative should be the person listed in Section D, "Person Undertaking Response Actions").

c. Number of Persons Maintaining an ROS not including the primary representative: _____

☐ 20. Submit a **Termination of a Remedy Operation Status,** pursuant to 310 CMR 40.0893(6).(check one)

☐ a. Submit a notice indicating ROS performance standards have been met. A plan and timetable pursuant to 310 CMR 40.0893(6)(b) for resuming the ROS are attached.

☐ b. Submit a notice of Termination of ROS.

☐ 21. Submit a **Phase V Completion Statement,** pursuant to 310 CMR 40.0894.

Specify the outcome of Phase V activities: (check one)

☐ a. The requirements of a Permanent Solution have been met. A completed Permanent Solution Statement and Report (BWSC104) will be submitted to DEP.

☐ b. The requirements for a Temporary Solution have been met. A completed Temporary Solution Statement and Report (BWSC104) will be submitted to DEP.

☐ 22. Submit a **Revised Phase V Completion Statement,** pursuant to 310 CMR 40.0894.

☐ 23. Submit a **Temporary Solution Status Report,** pursuant to 310 CMR 40.0898.

☐ 24. Submit a **Plan for the Application of Remedial Additives** near a sensitive receptor, pursuant to 310 CMR 40.0046(3).

a. Status of Site: (check one)

☐ i. Phase IV ☐ ii. Phase V ☐ iii. Remedy Operation Status ☐ iv. Temporary Solution

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C. LSP SIGNATURE AND STAMP:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> *if Section B indicates that a* ***Phase I, Phase II, Phase III, Phase IV or Phase V Completion Statement*** *and/or a* ***Termination of a Remedy Operation Status*** *is being submitted*, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B indicates that a* ***Phase II Scope of Work*** *or a* ***Phase IV Remedy Implementation Plan*** *is being submitted,* the response action(s) that is (are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B indicates that an* ***As-Built Construction Report,*** *a* ***Remedy Operation Status,*** *a* ***Phase IV, Phase V or Temporary Solution Status Report,*** *a* ***Status Report to Maintain a Remedy Operation Status,*** *a* ***Transfer or Modification of Persons Maintaining a Remedy Operation Status*** *and/or a* ***Remedial Monitoring Report*** *is being submitted,* the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

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I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP#: 9719
2. First Name: ILEEN S
3. Last Name: GLADSTONE
4. Telephone: 7817214012
5. Ext.:
6. Email: igladstone@geiconsultants.com
7. Signature:
8. Date: (mm/dd/yyyy)
9. LSP Stamp:

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

D. PERSON UNDERTAKING RESPONSE ACTIONS:

1. Check all that apply: ☐ a. change in contact name ☐ b. change of address ☐ c. change in the person undertaking response actions

2. Name of Organization: UNIFIRST CORPORATION

3. Contact First Name: CATHERINE 4. Last Name: MALAGRIDA

5. Street: 68 JONSPIN RD 6. Title: ENV COMPLIANCE MANAGER

7. City/Town: WILMINGTON 8. State: MA 9. ZIP Code: 018871090

10. Telephone: 9786588888 11. Ext: 12. Email: catherine_malagrida@unifirst.com

E. RELATIONSHIP TO SITE OF PERSON UNDERTAKING RESPONSE ACTIONS: ☐ Check here to change relationship

☑ 1. RP or PRP ☐ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter

☑ e. Other RP or PRP Specify: OTHER PRPS

☐ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

☐ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

☐ 4. Any Other Person Undertaking Response Actions Specify Relationship:

F. REQUIRED ATTACHMENT AND SUBMITTALS:

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☐ 1. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

☑ 2. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of any Phase Reports to DEP.

☑ 3. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the availability of a Phase III Remedial Action Plan.

☑ 4. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the availability of a Phase IV Remedy Implementation Plan.

☑ 5. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of any field work involving the implementation of a Phase IV Remedial Action.

☐ 6. If submitting a Transfer of a Remedy Operation Status (as per 310 CMR 40.0893(5)), check here to certify that a statement detailing the compliance history for the person making this submittal (transferee) is attached.

☐ 7. If submitting a Modification of a Remedy Operation Status (as per 310 CMR 40.0893(5)), check here to certify that a statement detailing the compliance history for each new person making this submittal is attached.

☐ 8. Check here if any non-updatable information provided on this form is incorrect, e.g. Release Address/Location Aid. Send corrections to: BWSC.eDEP@Mass.Gov.

☑ 9. Check here to certify that the LSP Opinion containing the material facts, data including, but not limited to: pressure measurements, maps, graphs, or diagrams, and other information is attached.

G. CERTIFICATION OF PERSON UNDERTAKING RESPONSE ACTIONS:

1. I, _____, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

>*if Section B indicates that this is a* **Modification of a Remedy Operation Status (ROS),** I attest under the pains and penalties of perjury that I am fully authorized to act on behalf of all persons performing response actions under the ROS as stated in 310 CMR 40.0893(5)(d) to receive oral and written correspondence from MassDEP with respect to performance of response actions under the ROS, and to receive a statement of fee amount as per 4.03(3).

I understand that any material received by the Primary Representative from MassDEP shall be deemed received by all the persons performing response actions under the ROS, and I am aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate or incomplete information.

2. By: _____ (Signature) 3. Title: ENV COMPLIANCE MANAGER

4. For: UNIFIRST CORPORATION (Name of person or entity recorded in Section D) 5. Date: _____ (mm/dd/yyyy)

☐ 6. Check here if the address of the person providing certification is different from address recorded in Section D.

7. Street: _____

8. City/Town: _____ 9. State: _____ 10. ZIP Code: _____

11. Telephone: _____ 12. Ext. _____ 13. Email: _____

DRAFT COPY

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO $10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup
CRA REMEDIAL MONITORING REPORT
Pursuant to 310 CMR 40.0800 (SUBPART H)
Remedial System or Monitoring Program: 1 of: 6

BWSC108 -A

Release Tracking Number
3 - 23246

A. DESCRIPTION OF ACTIVE OPERATION AND MAINTENANCE ACTIVITY:

1. Type of Active Operation and Maintenance Activity: (check all that apply)

☐ a. Active Remedial System: (check all that apply)
- ☐ i. NAPL Recovery
- ☐ ii. Soil Vapor Extraction/Bioventing
- ☐ iii. Vapor-phase Carbon Adsorption
- ☐ iv. Groundwater Recovery
- ☐ v. Dual/Multi-phase Extraction
- ☐ vi. Aqueous-phase Carbon Adsorption
- ☐ vii. Air Stripping
- ☐ viii. Sparging/Biosparging
- ☐ ix. Cat/Thermal Oxidation
- ☐ x. Other Describe:

☑ b. Active Exposure Pathway Elimination Measure
Active Exposure Pathway Mitigation System to address (check one): ☑ i. Indoor Air ☐ ii. Drinking Water

☐ c. Application of Remedial Additives: (check all that apply)
- ☐ i. To the Subsurface
- ☐ ii. To Groundwater (Injection)
- ☐ iii. To the Surface (Including stockpiled soil)

☐ d. Active Remedial Monitoring Program Without the Application of Remedial Additives: (check all that apply; Sections C, D and E are not required; attach supporting information, data, maps and/or sketches needed by checking Section G5)
- ☐ i. Reactive Wall
- ☐ ii. Natural Attenuation
- ☐ iii. Other Describe:

2. Mode of Operation: (check one)
☑ a. Continuous ☐ b. Intermittent ☐ c. Pulsed ☐ d. One-time Event Only ☐ e. Other:

3. System Effluent/Discharge: (check all that apply)
- ☐ a. Sanitary Sewer/POTW
- ☐ b. Groundwater Re-infiltration/Re-injection: (check one) ☐ i. Downgradient ☐ ii. Upgradient
- ☑ c. Vapor-phase Discharge to Ambient Air (check one) ☑ i. Off-gas Controls ☐ ii. No Off-gas Controls
- ☐ d. Drinking Water Supply
- ☐ e. Surface Water (including Storm Drains)
- ☐ f. Other Describe:

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B. MONITORING FREQUENCY:

1. Reporting period that is the subject of this submittal: From: 6/[illegible]/2025 To: 12/15/2025
(mm/dd/yyyy) (mm/dd/yyyy)

2. Number of monitoring events during the reporting period: (check one)

☐ a. System Startup: (if applicable)
- ☐ i. Days 1, 3, 6, and then weekly thereafter, for the first month.
- ☐ ii. Other Describe:

☑ b. Post-system Startup (after first month) or Monitoring Program:
- ☐ i. Monthly
- ☐ ii. Quarterly
- ☐ iii. Annually
- ☑ iv. Other Describe: OPERATIONAL PARAMETERS QUARTERLY, OFFGAS MONTHLY

☐ 3. Check here to certify that the number of required monitoring events were conducted during the reporting period.

C. EFFLUENT/DISCHARGE REGULATION: (check one to indicate how the effluent/discharge limits were established)

☐ 1. NPDES: (check one) ☐ a. Remediation General Permit ☐ b. Individual Permit ☐ c. Emergency Exclusion
Effective Date of Permit: (mm/dd/yyyy)

☑ 2. MCP Performance Standard MCP Citations(s): WSC-94-150

☐ 3. DEP Approval Letter Date of Letter: (mm/dd/yyyy)

☐ 4. Other Describe:

D. WASTEWATER TREATMENT PLANT OPERATOR: (check one)

☐ 1. Required due to Remedial Wastewater Treatment Plant in place for more than 30 days.
a. Name: _____ b. Grade: _____
c. License No: _____ d. License Exp. Date: _____ (mm/dd/yyyy)

☐ 2. Not Required
☑ 3. Not Applicable

E. STATUS OF ACTIVE REMEDIAL SYSTEM, ACTIVE EXPOSURE PATHWAY MITIGATION MEASURE(AEPMM) OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (check all that apply)

☑ 1. The Active Remedial System or AEPMM was functional one or more days during the Reporting Period.
a. Days System was Fully Functional: 183 b. GW Recovered (gals): _____
c. NAPL Recovered (gals): _____ d. GW Discharged (gals): _____
e. Avg. Soil Gas Recovery Rate (scfm): 309 f. Avg. Sparging Rate (scfm): _____

☐ 2. Remedial Additives: (check all that apply)

☐ a. No Remedial Additives applied during the Reporting Period.
☐ b. Enhanced Bioremediation Additives applied: (total quantity applied at the site for the current reporting period)
☐ i. Nitrogen/Phosphorus:

Name of Additive	Date	Quantity	Units

☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

☐ iii. Microorganisms:

Name of Additive	Date	Quantity	Units

☐ iv. Other:

Name of Additive	Date	Quantity	Units

☐ c. Chemical oxidation/reduction additives applied: (total quantity applied at the site for the current reporting period)
☐ i. Permanganates:

Name of Additive	Date	Quantity	Units

☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

☐ iii. Persulfates:

Name of Additive	Date	Quantity	Units

☐ iv. Other:

Name of Additive	Date	Quantity	Units

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E. STATUS OF ACTIVE REMEDIAL SYSTEM, AEPMM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (cont.)

☐ d. Other additives applied: (total quantity applied at the site for the current reporting period)

Name of Additive	Date	Quantity	Units

Name of Additive	Date	Quantity	Units

☐ e. Check here if any additional Remedial Additives were applied. Attach list of additional additives and include Name of Additive, Date Applied, Quantity Applied and Units (in gals. or lbs.)

F. SHUTDOWNS OF ACTIVE REMEDIAL SYSTEM, AEPMM OR ACTIVE REMEDIAL MONITORING PROGRAM: (check all that apply)

☐ 1. The Active Remedial System or AEPMM had unscheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Unscheduled Shutdowns: _____ b. Total Number of Days of Unscheduled Shutdowns: _____

c. Reason(s) for Unscheduled Shutdowns: _____

☐ 2. The Active Remedial System or AEPMM had scheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Scheduled Shutdowns: _____ b. Total Number of Days of Scheduled Shutdowns: _____

c. Reason(s) for Scheduled Shutdowns: _____

☐ 3. The Active Remedial System, AEPMM or Active Remedial Monitoring Program was permanently shutdown/discontinued during the Reporting Period.

a. Date of Final System or Monitoring Program Shutdown: _____ (mm/dd/yyyy)

☐ b. No Further Effluent Discharge

☐ c. No Further Application of Remedial Additives planned; sufficient monitoring completed to demonstrate compliance with 310 CMR 40.0046.

☐ d. No Further Submittals Planned.

☐ e. Other: Describe: _____

DRAFT COPY

G. SUMMARY STATEMENTS: (check all that apply for the current reporting period)

☑ 1. All Active Remedial System checks and effluent analyses required by the approved plan and/or permit were performed when applicable.

☑ 2. There were no significant problems or prolonged (>25% of reporting period) unscheduled shutdowns of the Active Remedial System.

☑ 3. The Active Remedial System, AEPMM or Active Remedial Monitoring Program operated in conformance with the MCP, and all applicable approval conditions and/or permits.

4. Indicate any Operational Problems or Notes:

50 TUFTS STREET SSDS

☐ 5. Check here if additional/supporting Information, data, maps, and/or sketches are attached to the form.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup
CRA REMEDIAL MONITORING REPORT
MEASUREMENTS
Pursuant to 310 CMR 40.0800 (SUBPART H)
Remedial System or Monitoring Program: 1 of: 6

BWSC108 -B

Release Tracking Number
3 23246

For each Point of Measurement, related to concentration indicate the highest concentration detected during the reporting period, of each oil, hazardous material and/or remedial additive.
For each Point of Measurement for pressure differentials, indicate the lowest pressure differential detected during the reporting period.

Point of Measurement	Date (mm/dd/yyyy)	Contaminant, Measurement and/or Indicator Parameter	Influent Concentration (where applicable)	Midpoint Concentration (where applicable)	(check one) ☑ Discharge ☐ GroundWater Concentration ☐ Pressure Differential	Check here, if ND/BDL	Permissible Concentration or Pressure Differential	Units	Within Permissible Limits? (Y/N)
SSDS	07/09/2025	TOTAL VOCS	2.0		0.0	☑	0.1	PPMV	YES
SSDS	08/20/2025	TOTAL VOCS	2.1		0.0	☑	0.105	PPMV	YES
SSDS	09/17/2025	TOTAL VOCS	1.8		0.0	☑	0.09	PPMV	YES
SSDS	10/09/2025	TOTAL VOCS	2.8		0.0	☑	0.14	PPMV	YES
SSDS	11/10/2025	TOTAL VOCS	1.4		0.0	☑	0.07	PPMV	YES
SSDS	12/12/2025	TOTAL VOCS	0.8		0.0	☑	0.04	PPMV	YES

☐ Check here if any additional BWSC108 B, Measurements Form(s), are needed.

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Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup
CRA REMEDIAL MONITORING REPORT
Pursuant to 310 CMR 40.0800 (SUBPART H)
Remedial System or Monitoring Program: 2 of: 6

BWSC108 -A

Release Tracking Number 3 - 23246

A. DESCRIPTION OF ACTIVE OPERATION AND MAINTENANCE ACTIVITY:

1. Type of Active Operation and Maintenance Activity: (check all that apply)

☑ a. Active Remedial System: (check all that apply)

☐ i. NAPL Recovery ☑ ii. Soil Vapor Extraction/Bioventing ☐ iii. Vapor-phase Carbon Adsorption
☐ iv. Groundwater Recovery ☐ v. Dual/Multi-phase Extraction ☐ vi. Aqueous-phase Carbon Adsorption
☐ vii. Air Stripping ☐ viii. Sparging/Biosparging ☐ ix. Cat/Thermal Oxidation
☐ x. Other Describe:

☐ b. Active Exposure Pathway Elimination Measure
Active Exposure Pathway Mitigation System to address (check one): ☐ i. Indoor Air ☐ ii. Drinking Water

☐ c. Application of Remedial Additives: (check all that apply)
☐ i. To the Subsurface ☐ ii. To Groundwater (Injection) ☐ iii. To the Surface (Including stockpiled soil)

☐ d. Active Remedial Monitoring Program Without the Application of Remedial Additives: (check all that apply; Sections C, D and E are not required; attach supporting information, data, maps and/or sketches needed by checking Section G5)
☐ i. Reactive Wall ☐ ii. Natural Attenuation ☐ iii. Other Describe:

2. Mode of Operation: (check one)
☑ a. Continuous ☐ b. Intermittent ☐ c. Pulsed ☐ d. One-time Event Only ☐ e. Other:

3. System Effluent/Discharge: (check all that apply)
☐ a. Sanitary Sewer/POTW
☐ b. Groundwater Re-infiltration/Re-injection: (check one) ☐ i. Downgradient ☐ ii. Upgradient
☑ c. Vapor-phase Discharge to Ambient Air (check one) ☑ i. Off-gas Controls ☐ ii. No Off-gas Controls
☐ d. Drinking Water Supply
☐ e. Surface Water (including Storm Drains)
☐ f. Other Describe:

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B. MONITORING FREQUENCY:

1. Reporting period that is the subject of this submittal: From: 6/[illegible]/25 (mm/dd/yyyy) To: 12/15/2025 (mm/dd/yyyy)

2. Number of monitoring events during the reporting period: (check one)
☐ a. System Startup: (if applicable)
☐ i. Days 1, 3, 6, and then weekly thereafter, for the first month.
☐ ii. Other Describe:
☑ b. Post-system Startup (after first month) or Monitoring Program:
☐ i. Monthly
☐ ii. Quarterly
☐ iii. Annually
☑ iv. Other Describe: OPERATIONAL PARAMETERS QUARTERLY, OFFGAS MONTHLY

☐ 3. Check here to certify that the number of required monitoring events were conducted during the reporting period.

C. EFFLUENT/DISCHARGE REGULATION: (check one to indicate how the effluent/discharge limits were established)

☐ 1. NPDES: (check one) ☐ a. Remediation General Permit ☐ b. Individual Permit
☐ c. Emergency Exclusion Effective Date of Permit: (mm/dd/yyyy)

☑ 2. MCP Performance Standard MCP Citations(s): WSC-94-150

☐ 3. DEP Approval Letter Date of Letter: (mm/dd/yyyy)

☐ 4. Other Describe:

D. WASTEWATER TREATMENT PLANT OPERATOR: (check one)

☐ 1. Required due to Remedial Wastewater Treatment Plant in place for more than 30 days.
a. Name: _____ b. Grade: _____
c. License No: _____ d. License Exp. Date: _____ (mm/dd/yyyy)

☐ 2. Not Required
☑ 3. Not Applicable

E. STATUS OF ACTIVE REMEDIAL SYSTEM, ACTIVE EXPOSURE PATHWAY MITIGATION MEASURE(AEPMM) OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (check all that apply)

☑ 1. The Active Remedial System or AEPMM was functional one or more days during the Reporting Period.
a. Days System was Fully Functional: 183 b. GW Recovered (gals): _____
c. NAPL Recovered (gals): _____ d. GW Discharged (gals): _____
e. Avg. Soil Gas Recovery Rate (scfm): 309 f. Avg. Sparging Rate (scfm): _____

☐ 2. Remedial Additives: (check all that apply)

☐ a. No Remedial Additives applied during the Reporting Period.
☐ b. Enhanced Bioremediation Additives applied: (total quantity applied at the site for the current reporting period)
☐ i. Nitrogen/Phosphorus:

Name of Additive	Date	Quantity	Units

☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

☐ iii. Microorganisms:

Name of Additive	Date	Quantity	Units

☐ iv. Other:

Name of Additive	Date	Quantity	Units

☐ c. Chemical oxidation/reduction additives applied: (total quantity applied at the site for the current reporting period)
☐ i. Permanganates:

Name of Additive	Date	Quantity	Units

☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

☐ iii. Persulfates:

Name of Additive	Date	Quantity	Units

☐ iv. Other:

Name of Additive	Date	Quantity	Units

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E. STATUS OF ACTIVE REMEDIAL SYSTEM, AEPMM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (cont.)

☐ d. Other additives applied: (total quantity applied at the site for the current reporting period)

Name of Additive	Date	Quantity	Units

Name of Additive	Date	Quantity	Units

☐ e. Check here if any additional Remedial Additives were applied. Attach list of additional additives and include Name of Additive, Date Applied, Quantity Applied and Units (in gals. or lbs.)

F. SHUTDOWNS OF ACTIVE REMEDIAL SYSTEM, AEPMM OR ACTIVE REMEDIAL MONITORING PROGRAM: (check all that apply)

☐ 1. The Active Remedial System or AEPMM had unscheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Unscheduled Shutdowns: _____ b. Total Number of Days of Unscheduled Shutdowns: _____

c. Reason(s) for Unscheduled Shutdowns: _____

☐ 2. The Active Remedial System or AEPMM had scheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Scheduled Shutdowns: _____ b. Total Number of Days of Scheduled Shutdowns: _____

c. Reason(s) for Scheduled Shutdowns: _____

☐ 3. The Active Remedial System, AEPMM or Active Remedial Monitoring Program was permanently shutdown/discontinued during the Reporting Period.

a. Date of Final System or Monitoring Program Shutdown: _____ (mm/dd/yyyy)

☐ b. No Further Effluent Discharge

☐ c. No Further Application of Remedial Additives planned; sufficient monitoring completed to demonstrate compliance with 310 CMR 40.0046.

☐ d. No Further Submittals Planned.

☐ e. Other: Describe: _____

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G. SUMMARY STATEMENTS: (check all that apply for the current reporting period)

☑ 1. All Active Remedial System checks and effluent analyses required by the approved plan and/or permit were performed when applicable.

☑ 2. There were no significant problems or prolonged (>25% of reporting period) unscheduled shutdowns of the Active Remedial System.

☑ 3. The Active Remedial System, AEPMM or Active Remedial Monitoring Program operated in conformance with the MCP, and all applicable approval conditions and/or permits.

4. Indicate any Operational Problems or Notes:

50 TUFTS STREET SVE

☐ 5. Check here if additional/supporting Information, data, maps, and/or sketches are attached to the form.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup
CRA REMEDIAL MONITORING REPORT
MEASUREMENTS
Pursuant to 310 CMR 40.0800 (SUBPART H)
Remedial System or Monitoring Program: 2 of: 6

BWSC108 -B

Release Tracking Number
3 23246

For each Point of Measurement, related to concentration indicate the highest concentration detected during the reporting period, of each oil, hazardous material and/or remedial additive.
For each Point of Measurement for pressure differentials, indicate the lowest pressure differential detected during the reporting period.

Point of Measurement	Date (mm/dd/yyyy)	Contaminant, Measurement and/or Indicator Parameter	Influent Concentration (where applicable)	Midpoint Concentration (where applicable)	(check one) ☑ Discharge ☐ GroundWater Concentration ☐ Pressure Differential	Check here, if ND/BDL	Permissible Concentration or Pressure Differential	Units	Within Permissible Limits? (Y/N)
SSDS	07/09/2025	TOTAL VOCS	2.0		0.0	☑	0.1	PPMV	YES
SSDS	08/20/2025	TOTAL VOCS	2.1		0.0	☑	0.105	PPMV	YES
SSDS	09/17/2025	TOTAL VOCS	1.8		0.0	☑	0.09	PPMV	YES
SSDS	10/09/2025	TOTAL VOCS	2.8		0.0	☑	0.14	PPMV	YES
SSDS	11/10/2025	TOTAL VOCS	1.4		0.0	☑	0.07	PPMV	YES
SSDS	12/12/2025	TOTAL VOCS	0.8		0.0	☑	0.04	PPMV	YES

☐ Check here if any additional BWSC108 B, Measurements Form(s), are needed.

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Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup
CRA REMEDIAL MONITORING REPORT
Pursuant to 310 CMR 40.0800 (SUBPART H)
Remedial System or Monitoring Program: 3 of: 6

BWSC108 -A

Release Tracking Number 3 - 23246

A. DESCRIPTION OF ACTIVE OPERATION AND MAINTENANCE ACTIVITY:

1. Type of Active Operation and Maintenance Activity: (check all that apply)

☐ a. Active Remedial System: (check all that apply)
- ☐ i. NAPL Recovery
- ☐ ii. Soil Vapor Extraction/Bioventing
- ☐ iii. Vapor-phase Carbon Adsorption
- ☐ iv. Groundwater Recovery
- ☐ v. Dual/Multi-phase Extraction
- ☐ vi. Aqueous-phase Carbon Adsorption
- ☐ vii. Air Stripping
- ☐ viii. Sparging/Biosparging
- ☐ ix. Cat/Thermal Oxidation
- ☐ x. Other Describe:

☑ b. Active Exposure Pathway Elimination Measure
Active Exposure Pathway Mitigation System to address (check one): ☑ i. Indoor Air ☐ ii. Drinking Water

☐ c. Application of Remedial Additives: (check all that apply)
- ☐ i. To the Subsurface
- ☐ ii. To Groundwater (Injection)
- ☐ iii. To the Surface (Including stockpiled soil)

☐ d. Active Remedial Monitoring Program Without the Application of Remedial Additives: (check all that apply; Sections C, D and E are not required; attach supporting information, data, maps and/or sketches needed by checking Section G5)
- ☐ i. Reactive Wall
- ☐ ii. Natural Attenuation
- ☐ iii. Other Describe:

2. Mode of Operation: (check one)
☑ a. Continuous ☐ b. Intermittent ☐ c. Pulsed ☐ d. One-time Event Only ☐ e. Other:

3. System Effluent/Discharge: (check all that apply)
- ☐ a. Sanitary Sewer/POTW
- ☐ b. Groundwater Re-infiltration/Re-injection: (check one) ☐ i. Downgradient ☐ ii. Upgradient
- ☑ c. Vapor-phase Discharge to Ambient Air (check one) ☐ i. Off-gas Controls ☑ ii. No Off-gas Controls
- ☐ d. Drinking Water Supply
- ☐ e. Surface Water (including Storm Drains)
- ☐ f. Other Describe:

DRAFT COPY

B. MONITORING FREQUENCY:

1. Reporting period that is the subject of this submittal: From: 6/[illegible]/2025 To: 12/15/2025 (mm/dd/yyyy)

2. Number of monitoring events during the reporting period: (check one)

☐ a. System Startup: (if applicable)
- ☐ i. Days 1, 3, 6, and then weekly thereafter, for the first month.
- ☐ ii. Other Describe:

☑ b. Post-system Startup (after first month) or Monitoring Program:
- ☐ i. Monthly
- ☑ ii. Quarterly
- ☐ iii. Annually
- ☐ iv. Other Describe:

☐ 3. Check here to certify that the number of required monitoring events were conducted during the reporting period.

C. EFFLUENT/DISCHARGE REGULATION: (check one to indicate how the effluent/discharge limits were established)

☐ 1. NPDES: (check one) ☐ a. Remediation General Permit ☐ b. Individual Permit ☐ c. Emergency Exclusion Effective Date of Permit: (mm/dd/yyyy)

☑ 2. MCP Performance Standard MCP Citations(s): WSC-94-150

☐ 3. DEP Approval Letter Date of Letter: (mm/dd/yyyy)

☐ 4. Other Describe:

D. WASTEWATER TREATMENT PLANT OPERATOR: (check one)

☐ 1. Required due to Remedial Wastewater Treatment Plant in place for more than 30 days.
a. Name: _____ b. Grade: _____
c. License No: _____ d. License Exp. Date: _____ (mm/dd/yyyy)

☐ 2. Not Required
☑ 3. Not Applicable

E. STATUS OF ACTIVE REMEDIAL SYSTEM, ACTIVE EXPOSURE PATHWAY MITIGATION MEASURE(AEPMM) OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (check all that apply)

☑ 1. The Active Remedial System or AEPMM was functional one or more days during the Reporting Period.
a. Days System was Fully Functional: 183 b. GW Recovered (gals): _____
c. NAPL Recovered (gals): _____ d. GW Discharged (gals): _____
e. Avg. Soil Gas Recovery Rate (scfm): 99 f. Avg. Sparging Rate (scfm): _____

☐ 2. Remedial Additives: (check all that apply)

☐ a. No Remedial Additives applied during the Reporting Period.
☐ b. Enhanced Bioremediation Additives applied: (total quantity applied at the site for the current reporting period)
☐ i. Nitrogen/Phosphorus:

Name of Additive	Date	Quantity	Units

☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

☐ iii. Microorganisms:

Name of Additive	Date	Quantity	Units

☐ iv. Other:

Name of Additive	Date	Quantity	Units

☐ c. Chemical oxidation/reduction additives applied: (total quantity applied at the site for the current reporting period)
☐ i. Permanganates:

Name of Additive	Date	Quantity	Units

☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

☐ iii. Persulfates:

Name of Additive	Date	Quantity	Units

☐ iv. Other:

Name of Additive	Date	Quantity	Units

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E. STATUS OF ACTIVE REMEDIAL SYSTEM, AEPMM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (cont.)

☐ d. Other additives applied: (total quantity applied at the site for the current reporting period)

Name of Additive	Date	Quantity	Units

Name of Additive	Date	Quantity	Units

☐ e. Check here if any additional Remedial Additives were applied. Attach list of additional additives and include Name of Additive, Date Applied, Quantity Applied and Units (in gals. or lbs.)

F. SHUTDOWNS OF ACTIVE REMEDIAL SYSTEM, AEPMM OR ACTIVE REMEDIAL MONITORING PROGRAM: (check all that apply)

☐ 1. The Active Remedial System or AEPMM had unscheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Unscheduled Shutdowns: _____ b. Total Number of Days of Unscheduled Shutdowns: _____

c. Reason(s) for Unscheduled Shutdowns: _____

☐ 2. The Active Remedial System or AEPMM had scheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Scheduled Shutdowns: _____ b. Total Number of Days of Scheduled Shutdowns: _____

c. Reason(s) for Scheduled Shutdowns: _____

☐ 3. The Active Remedial System, AEPMM or Active Remedial Monitoring Program was permanently shutdown/discontinued during the Reporting Period.

a. Date of Final System or Monitoring Program Shutdown: _____ (mm/dd/yyyy)

☐ b. No Further Effluent Discharge

☐ c. No Further Application of Remedial Additives planned; sufficient monitoring completed to demonstrate compliance with 310 CMR 40.0046.

☐ d. No Further Submittals Planned.

☐ e. Other: Describe: _____

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G. SUMMARY STATEMENTS: (check all that apply for the current reporting period)

☑ 1. All Active Remedial System checks and effluent analyses required by the approved plan and/or permit were performed when applicable.

☑ 2. There were no significant problems or prolonged (>25% of reporting period) unscheduled shutdowns of the Active Remedial System.

☑ 3. The Active Remedial System, AEPMM or Active Remedial Monitoring Program operated in conformance with the MCP, and all applicable approval conditions and/or permits.

4. Indicate any Operational Problems or Notes:

150 GLEN STREET (CAPUANO CENTER)

☐ 5. Check here if additional/supporting Information, data, maps, and/or sketches are attached to the form.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup
CRA REMEDIAL MONITORING REPORT
MEASUREMENTS
Pursuant to 310 CMR 40.0800 (SUBPART H)
Remedial System or Monitoring Program: 3 of: 6

BWSC108 -B

Release Tracking Number
3 23246

For each Point of Measurement, related to concentration indicate the highest concentration detected during the reporting period, of each oil, hazardous material and/or remedial additive.
For each Point of Measurement for pressure differentials, indicate the lowest pressure differential detected during the reporting period.

Point of Measurement	Date (mm/dd/yyyy)	Contaminant, Measurement and/or Indicator Parameter	Influent Concentration (where applicable)	Midpoint Concentration (where applicable)	(check one) ☐ Discharge ☐ GroundWater Concentration ☑ Pressure Differential	Check here, if ND/BDL	Permissible Concentration or Pressure Differential	Units	Within Permissible Limits? (Y/N)
SSDS	07/09/2025	VACUUM			0.032	☐	0	PSI	YES
SSDS	10/10/2025	VACUUM			0.030	☐	0	PSI	YES

☐ Check here if any additional BWSC108 B, Measurements Form(s), are needed.

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Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup
CRA REMEDIAL MONITORING REPORT
Pursuant to 310 CMR 40.0800 (SUBPART H)
Remedial System or Monitoring Program: 4 of: 6

BWSC108 -A

Release Tracking Number 3 - 23246

A. DESCRIPTION OF ACTIVE OPERATION AND MAINTENANCE ACTIVITY:

1. Type of Active Operation and Maintenance Activity: (check all that apply)

☐ a. Active Remedial System: (check all that apply)
- ☐ i. NAPL Recovery
- ☐ ii. Soil Vapor Extraction/Bioventing
- ☐ iii. Vapor-phase Carbon Adsorption
- ☐ iv. Groundwater Recovery
- ☐ v. Dual/Multi-phase Extraction
- ☐ vi. Aqueous-phase Carbon Adsorption
- ☐ vii. Air Stripping
- ☐ viii. Sparging/Biosparging
- ☐ ix. Cat/Thermal Oxidation
- ☐ x. Other Describe:

☑ b. Active Exposure Pathway Elimination Measure
Active Exposure Pathway Mitigation System to address (check one): ☑ i. Indoor Air ☐ ii. Drinking Water

☐ c. Application of Remedial Additives: (check all that apply)
- ☐ i. To the Subsurface
- ☐ ii. To Groundwater (Injection)
- ☐ iii. To the Surface (Including stockpiled soil)

☐ d. Active Remedial Monitoring Program Without the Application of Remedial Additives: (check all that apply; Sections C, D and E are not required; attach supporting information, data, maps and/or sketches needed by checking Section G5)
- ☐ i. Reactive Wall
- ☐ ii. Natural Attenuation
- ☐ iii. Other Describe:

2. Mode of Operation: (check one)
☑ a. Continuous ☐ b. Intermittent ☐ c. Pulsed ☐ d. One-time Event Only ☐ e. Other:

3. System Effluent/Discharge: (check all that apply)
- ☐ a. Sanitary Sewer/POTW
- ☐ b. Groundwater Re-infiltration/Re-injection: (check one) ☐ i. Downgradient ☐ ii. Upgradient
- ☑ c. Vapor-phase Discharge to Ambient Air (check one) ☐ i. Off-gas Controls ☑ ii. No Off-gas Controls
- ☐ d. Drinking Water Supply
- ☐ e. Surface Water (including Storm Drains)
- ☐ f. Other Describe:

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B. MONITORING FREQUENCY:

1. Reporting period that is the subject of this submittal: From: 6/[illegible]/2025 To: 12/15/2025
(mm/dd/yyyy) (mm/dd/yyyy)

2. Number of monitoring events during the reporting period: (check one)
☐ a. System Startup: (if applicable)
- ☐ i. Days 1, 3, 6, and then weekly thereafter, for the first month.
- ☐ ii. Other Describe:

☑ b. Post-system Startup (after first month) or Monitoring Program:
- ☐ i. Monthly
- ☑ ii. Quarterly
- ☐ iii. Annually
- ☐ iv. Other Describe:

☐ 3. Check here to certify that the number of required monitoring events were conducted during the reporting period.

C. EFFLUENT/DISCHARGE REGULATION: (check one to indicate how the effluent/discharge limits were established)

☐ 1. NPDES: (check one) ☐ a. Remediation General Permit ☐ b. Individual Permit ☐ c. Emergency Exclusion
Effective Date of Permit: (mm/dd/yyyy)

☑ 2. MCP Performance Standard MCP Citations(s): WSC-94-150

☐ 3. DEP Approval Letter Date of Letter: (mm/dd/yyyy)

☐ 4. Other Describe:

D. WASTEWATER TREATMENT PLANT OPERATOR: (check one)

☐ 1. Required due to Remedial Wastewater Treatment Plant in place for more than 30 days.
a. Name: _____ b. Grade: _____
c. License No: _____ d. License Exp. Date: _____ (mm/dd/yyyy)

☐ 2. Not Required
☑ 3. Not Applicable

E. STATUS OF ACTIVE REMEDIAL SYSTEM, ACTIVE EXPOSURE PATHWAY MITIGATION MEASURE(AEPMM) OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (check all that apply)

☑ 1. The Active Remedial System or AEPMM was functional one or more days during the Reporting Period.
a. Days System was Fully Functional: 41 b. GW Recovered (gals): _____
c. NAPL Recovered (gals): _____ d. GW Discharged (gals): _____
e. Avg. Soil Gas Recovery Rate (scfm): 126 f. Avg. Sparging Rate (scfm): _____

☐ 2. Remedial Additives: (check all that apply)

☐ a. No Remedial Additives applied during the Reporting Period.
☐ b. Enhanced Bioremediation Additives applied: (total quantity applied at the site for the current reporting period)
☐ i. Nitrogen/Phosphorus:

Name of Additive	Date	Quantity	Units

☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

☐ iii. Microorganisms:

Name of Additive	Date	Quantity	Units

☐ iv. Other:

Name of Additive	Date	Quantity	Units

☐ c. Chemical oxidation/reduction additives applied: (total quantity applied at the site for the current reporting period)
☐ i. Permanganates:

Name of Additive	Date	Quantity	Units

☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

☐ iii. Persulfates:

Name of Additive	Date	Quantity	Units

☐ iv. Other:

Name of Additive	Date	Quantity	Units

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E. STATUS OF ACTIVE REMEDIAL SYSTEM, AEPMM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (cont.)

☐ d. Other additives applied: (total quantity applied at the site for the current reporting period)

Name of Additive	Date	Quantity	Units

Name of Additive	Date	Quantity	Units

☐ e. Check here if any additional Remedial Additives were applied. Attach list of additional additives and include Name of Additive, Date Applied, Quantity Applied and Units (in gals. or lbs.)

F. SHUTDOWNS OF ACTIVE REMEDIAL SYSTEM, AEPMM OR ACTIVE REMEDIAL MONITORING PROGRAM: (check all that apply)

☑ 1. The Active Remedial System or AEPMM had unscheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Unscheduled Shutdowns: 2 b. Total Number of Days of Unscheduled Shutdowns: 2

c. Reason(s) for Unscheduled Shutdowns: 60 TUFTS - BLOWER FAILURE ON 7/2/2025 AND 7/26/2025. RESTARTED SAME DAY.

☑ 2. The Active Remedial System or AEPMM had scheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Scheduled Shutdowns: 1 b. Total Number of Days of Scheduled Shutdowns: 140

c. Reason(s) for Scheduled Shutdowns: 60 TUFTS - BLOWER MAINTENANCE BEGINNING 7/29/2025 (SEE SECTION G.4.)

☐ 3. The Active Remedial System, AEPMM or Active Remedial Monitoring Program was permanently shutdown/discontinued during the Reporting Period.

a. Date of Final System or Monitoring Program Shutdown: _____ (mm/dd/yyyy)

☐ b. No Further Effluent Discharge

☐ c. No Further Application of Remedial Additives planned; sufficient monitoring completed to demonstrate compliance with 310 CMR 40.0046.

☐ d. No Further Submittals Planned.

☐ e. Other: Describe: _____

DRAFT COPY

G. SUMMARY STATEMENTS: (check all that apply for the current reporting period)

☑ 1. All Active Remedial System checks and effluent analyses required by the approved plan and/or permit were performed when applicable.

☑ 2. There were no significant problems or prolonged (>25% of reporting period) unscheduled shutdowns of the Active Remedial System.

☑ 3. The Active Remedial System, AEPMM or Active Remedial Monitoring Program operated in conformance with the MCP, and all applicable approval conditions and/or permits.

4. Indicate any Operational Problems or Notes:

60 TUFTS: BLOWER MAINTENANCE FROM 7/29/2025 (SHUT DOWN) - 1/8/2026 (RESTARTED, AFTER REPORTING PER

☐ 5. Check here if additional/supporting Information, data, maps, and/or sketches are attached to the form.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup
CRA REMEDIAL MONITORING REPORT
MEASUREMENTS
Pursuant to 310 CMR 40.0800 (SUBPART H)
Remedial System or Monitoring Program: 4 of: 6

BWSC108 -B

Release Tracking Number
3 23246

For each Point of Measurement, related to concentration indicate the highest concentration detected during the reporting period, of each oil, hazardous material and/or remedial additive.
For each Point of Measurement for pressure differentials, indicate the lowest pressure differential detected during the reporting period.

Point of Measurement	Date (mm/dd/yyyy)	Contaminant, Measurement and/or Indicator Parameter	Influent Concentration (where applicable)	Midpoint Concentration (where applicable)	(check one) ☐ Discharge ☐ GroundWater Concentration ☑ Pressure Differential	Check here, if ND/BDL	Permissible Concentration or Pressure Differential	Units	Within Permissible Limits? (Y/N)
SSDS	07/09/2025	VACUUM			0.044	☐	0	PSI	YES

☐ Check here if any additional BWSC108 B, Measurements Form(s), are needed.

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Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup
CRA REMEDIAL MONITORING REPORT
Pursuant to 310 CMR 40.0800 (SUBPART H)
Remedial System or Monitoring Program: 5 of: 6

BWSC108 -A

Release Tracking Number
3 - 23246

A. DESCRIPTION OF ACTIVE OPERATION AND MAINTENANCE ACTIVITY:

1. Type of Active Operation and Maintenance Activity: (check all that apply)

☐ a. Active Remedial System: (check all that apply)
- ☐ i. NAPL Recovery
- ☐ ii. Soil Vapor Extraction/Bioventing
- ☐ iii. Vapor-phase Carbon Adsorption
- ☐ iv. Groundwater Recovery
- ☐ v. Dual/Multi-phase Extraction
- ☐ vi. Aqueous-phase Carbon Adsorption
- ☐ vii. Air Stripping
- ☐ viii. Sparging/Biosparging
- ☐ ix. Cat/Thermal Oxidation
- ☐ x. Other Describe:

☑ b. Active Exposure Pathway Elimination Measure
Active Exposure Pathway Mitigation System to address (check one): ☑ i. Indoor Air ☐ ii. Drinking Water

☐ c. Application of Remedial Additives: (check all that apply)
- ☐ i. To the Subsurface
- ☐ ii. To Groundwater (Injection)
- ☐ iii. To the Surface (Including stockpiled soil)

☐ d. Active Remedial Monitoring Program Without the Application of Remedial Additives: (check all that apply; Sections C, D and E are not required; attach supporting information, data, maps and/or sketches needed by checking Section G5)
- ☐ i. Reactive Wall
- ☐ ii. Natural Attenuation
- ☐ iii. Other Describe:

2. Mode of Operation: (check one)
☑ a. Continuous ☐ b. Intermittent ☐ c. Pulsed ☐ d. One-time Event Only ☐ e. Other:

3. System Effluent/Discharge: (check all that apply)
- ☐ a. Sanitary Sewer/POTW
- ☐ b. Groundwater Re-infiltration/Re-injection: (check one) ☐ i. Downgradient ☐ ii. Upgradient
- ☑ c. Vapor-phase Discharge to Ambient Air (check one) ☐ i. Off-gas Controls ☑ ii. No Off-gas Controls
- ☐ d. Drinking Water Supply
- ☐ e. Surface Water (including Storm Drains)
- ☐ f. Other Describe:

DRAFT COPY

B. MONITORING FREQUENCY:

1. Reporting period that is the subject of this submittal: From: 6/[illegible]/2025 To: 12/15/2025
(mm/dd/yyyy) (mm/dd/yyyy)

2. Number of monitoring events during the reporting period: (check one)
☐ a. System Startup: (if applicable)
- ☐ i. Days 1, 3, 6, and then weekly thereafter, for the first month.
- ☐ ii. Other Describe:

☑ b. Post-system Startup (after first month) or Monitoring Program:
- ☐ i. Monthly
- ☐ ii. Quarterly
- ☑ iii. Annually
- ☐ iv. Other Describe:

☐ 3. Check here to certify that the number of required monitoring events were conducted during the reporting period.

C. EFFLUENT/DISCHARGE REGULATION: (check one to indicate how the effluent/discharge limits were established)

☐ 1. NPDES: (check one) ☐ a. Remediation General Permit ☐ b. Individual Permit ☐ c. Emergency Exclusion
Effective Date of Permit: (mm/dd/yyyy)

☑ 2. MCP Performance Standard MCP Citations(s): WSC-94-150

☐ 3. DEP Approval Letter Date of Letter: (mm/dd/yyyy)

☐ 4. Other Describe:

D. WASTEWATER TREATMENT PLANT OPERATOR: (check one)

☐ 1. Required due to Remedial Wastewater Treatment Plant in place for more than 30 days.
a. Name: _____ b. Grade: _____
c. License No: _____ d. License Exp. Date: _____ (mm/dd/yyyy)

☐ 2. Not Required
☑ 3. Not Applicable

E. STATUS OF ACTIVE REMEDIAL SYSTEM, ACTIVE EXPOSURE PATHWAY MITIGATION MEASURE(AEPMM) OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (check all that apply)

☑ 1. The Active Remedial System or AEPMM was functional one or more days during the Reporting Period.
a. Days System was Fully Functional: 183 b. GW Recovered (gals): _____
c. NAPL Recovered (gals): _____ d. GW Discharged (gals): _____
e. Avg. Soil Gas Recovery Rate (scfm): 0 f. Avg. Sparging Rate (scfm): _____

☐ 2. Remedial Additives: (check all that apply)

☐ a. No Remedial Additives applied during the Reporting Period.
☐ b. Enhanced Bioremediation Additives applied: (total quantity applied at the site for the current reporting period)
☐ i. Nitrogen/Phosphorus:

Name of Additive	Date	Quantity	Units

☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

☐ iii. Microorganisms:

Name of Additive	Date	Quantity	Units

☐ iv. Other:

Name of Additive	Date	Quantity	Units

☐ c. Chemical oxidation/reduction additives applied: (total quantity applied at the site for the current reporting period)
☐ i. Permanganates:

Name of Additive	Date	Quantity	Units

☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

☐ iii. Persulfates:

Name of Additive	Date	Quantity	Units

☐ iv. Other:

Name of Additive	Date	Quantity	Units

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E. STATUS OF ACTIVE REMEDIAL SYSTEM, AEPMM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (cont.)

☐ d. Other additives applied: (total quantity applied at the site for the current reporting period)

Name of Additive	Date	Quantity	Units

Name of Additive	Date	Quantity	Units

☐ e. Check here if any additional Remedial Additives were applied. Attach list of additional additives and include Name of Additive, Date Applied, Quantity Applied and Units (in gals. or lbs.)

F. SHUTDOWNS OF ACTIVE REMEDIAL SYSTEM, AEPMM OR ACTIVE REMEDIAL MONITORING PROGRAM: (check all that apply)

☐ 1. The Active Remedial System or AEPMM had unscheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Unscheduled Shutdowns: _____ b. Total Number of Days of Unscheduled Shutdowns: _____

c. Reason(s) for Unscheduled Shutdowns: _____

☐ 2. The Active Remedial System or AEPMM had scheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Scheduled Shutdowns: _____ b. Total Number of Days of Scheduled Shutdowns: _____

c. Reason(s) for Scheduled Shutdowns: _____

☐ 3. The Active Remedial System, AEPMM or Active Remedial Monitoring Program was permanently shutdown/discontinued during the Reporting Period.

a. Date of Final System or Monitoring Program Shutdown: _____ (mm/dd/yyyy)

☐ b. No Further Effluent Discharge

☐ c. No Further Application of Remedial Additives planned; sufficient monitoring completed to demonstrate compliance with 310 CMR 40.0046.

☐ d. No Further Submittals Planned.

☐ e. Other: Describe: _____

DRAFT COPY

G. SUMMARY STATEMENTS: (check all that apply for the current reporting period)

☑ 1. All Active Remedial System checks and effluent analyses required by the approved plan and/or permit were performed when applicable.

☑ 2. There were no significant problems or prolonged (>25% of reporting period) unscheduled shutdowns of the Active Remedial System.

☑ 3. The Active Remedial System, AEPMM or Active Remedial Monitoring Program operated in conformance with the MCP, and all applicable approval conditions and/or permits.

4. Indicate any Operational Problems or Notes:

SEC. E Q.1.E: FLOW RATE NOT MEASURED AT INDIVIDUAL RESIDENCES WITH AN AEPMM, EXCEPT 60 TUFTS (LIST

☐ 5. Check here if additional/supporting Information, data, maps, and/or sketches are attached to the form.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup
CRA REMEDIAL MONITORING REPORT
MEASUREMENTS
Pursuant to 310 CMR 40.0800 (SUBPART H)
Remedial System or Monitoring Program: 5 of: 6

BWSC108 -B

Release Tracking Number
3 23246

For each Point of Measurement, related to concentration indicate the highest concentration detected during the reporting period, of each oil, hazardous material and/or remedial additive.
For each Point of Measurement for pressure differentials, indicate the lowest pressure differential detected during the reporting period.

Point of Measurement	Date (mm/dd/yyyy)	Contaminant, Measurement and/or Indicator Parameter	Influent Concentration (where applicable)	Midpoint Concentration (where applicable)	(check one) ☐ Discharge ☐ GroundWater Concentration ☑ Pressure Differential	Check here, if ND/BDL	Permissible Concentration or Pressure Differential	Units	Within Permissible Limits? (Y/N)
13 MORTON	12/18/2025	VACUUM			0.12	☐	0	PSI	YES
18 MORTON	12/19/2025	VACUUM			0.033	☐	0	PSI	YES

☐ Check here if any additional BWSC108 B, Measurements Form(s), are needed.

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Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup
CRA REMEDIAL MONITORING REPORT
Pursuant to 310 CMR 40.0800 (SUBPART H)
Remedial System or Monitoring Program: 6 of: 6

BWSC108 -A

Release Tracking Number
3 - 23246

A. DESCRIPTION OF ACTIVE OPERATION AND MAINTENANCE ACTIVITY:

1. Type of Active Operation and Maintenance Activity: (check all that apply)

☐ a. Active Remedial System: (check all that apply)
- ☐ i. NAPL Recovery
- ☐ ii. Soil Vapor Extraction/Bioventing
- ☐ iii. Vapor-phase Carbon Adsorption
- ☐ iv. Groundwater Recovery
- ☐ v. Dual/Multi-phase Extraction
- ☐ vi. Aqueous-phase Carbon Adsorption
- ☐ vii. Air Stripping
- ☐ viii. Sparging/Biosparging
- ☐ ix. Cat/Thermal Oxidation
- ☐ x. Other Describe:

☐ b. Active Exposure Pathway Elimination Measure
Active Exposure Pathway Mitigation System to address (check one): ☐ i. Indoor Air ☐ ii. Drinking Water

☐ c. Application of Remedial Additives: (check all that apply)
- ☐ i. To the Subsurface
- ☐ ii. To Groundwater (Injection)
- ☐ iii. To the Surface (Including stockpiled soil)

☑ d. Active Remedial Monitoring Program Without the Application of Remedial Additives: (check all that apply; Sections C, D and E are not required; attach supporting information, data, maps and/or sketches needed by checking Section G5)
- ☐ i. Reactive Wall
- ☑ ii. Natural Attenuation
- ☐ iii. Other Describe:

2. Mode of Operation: (check one)
☐ a. Continuous ☐ b. Intermittent ☐ c. Pulsed ☐ d. One-time Event Only ☐ e. Other:

3. System Effluent/Discharge: (check all that apply)
- ☐ a. Sanitary Sewer/POTW
- ☐ b. Groundwater Re-infiltration/Re-injection: (check one) ☐ i. Downgradient ☐ ii. Upgradient
- ☐ c. Vapor-phase Discharge to Ambient Air (check one) ☐ i. Off-gas Controls ☐ ii. No Off-gas Controls
- ☐ d. Drinking Water Supply
- ☐ e. Surface Water (including Storm Drains)
- ☐ f. Other Describe:

DRAFT COPY

B. MONITORING FREQUENCY:

1. Reporting period that is the subject of this submittal: From: 6/[illegible]/2025 (mm/dd/yyyy) To: 12/15/2025 (mm/dd/yyyy)

2. Number of monitoring events during the reporting period: (check one)

☐ a. System Startup: (if applicable)
- ☐ i. Days 1, 3, 6, and then weekly thereafter, for the first month.
- ☐ ii. Other Describe:

☑ b. Post-system Startup (after first month) or Monitoring Program:
- ☐ i. Monthly
- ☐ ii. Quarterly
- ☑ iii. Annually
- ☐ iv. Other Describe:

☐ 3. Check here to certify that the number of required monitoring events were conducted during the reporting period.

C. EFFLUENT/DISCHARGE REGULATION: (check one to indicate how the effluent/discharge limits were established)

☐ 1. NPDES: (check one) ☐ a. Remediation General Permit ☐ b. Individual Permit ☐ c. Emergency Exclusion Effective Date of Permit: (mm/dd/yyyy)

☐ 2. MCP Performance Standard MCP Citations(s):

☐ 3. DEP Approval Letter Date of Letter: (mm/dd/yyyy)

☐ 4. Other Describe:

D. WASTEWATER TREATMENT PLANT OPERATOR: (check one)

☐ 1. Required due to Remedial Wastewater Treatment Plant in place for more than 30 days.

a. Name: _____ b. Grade: _____

c. License No: _____ d. License Exp. Date: _____ (mm/dd/yyyy)

☐ 2. Not Required

☑ 3. Not Applicable

E. STATUS OF ACTIVE REMEDIAL SYSTEM, ACTIVE EXPOSURE PATHWAY MITIGATION MEASURE(AEPMM) OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (check all that apply)

☐ 1. The Active Remedial System or AEPMM was functional one or more days during the Reporting Period.

a. Days System was Fully Functional: _____ b. GW Recovered (gals): _____

c. NAPL Recovered (gals): _____ d. GW Discharged (gals): _____

e. Avg. Soil Gas Recovery Rate (scfm): _____ f. Avg. Sparging Rate (scfm): _____

☐ 2. Remedial Additives: (check all that apply)

☐ a. No Remedial Additives applied during the Reporting Period.

☐ b. Enhanced Bioremediation Additives applied: (total quantity applied at the site for the current reporting period)

☐ i. Nitrogen/Phosphorus:

Name of Additive	Date	Quantity	Units

☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

☐ iii. Microorganisms:

Name of Additive	Date	Quantity	Units

☐ iv. Other:

Name of Additive	Date	Quantity	Units

☐ c. Chemical oxidation/reduction additives applied: (total quantity applied at the site for the current reporting period)

☐ i. Permanganates:

Name of Additive	Date	Quantity	Units

☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

☐ iii. Persulfates:

Name of Additive	Date	Quantity	Units

☐ iv. Other:

Name of Additive	Date	Quantity	Units

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E. STATUS OF ACTIVE REMEDIAL SYSTEM, AEPMM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (cont.)

☐ d. Other additives applied: (total quantity applied at the site for the current reporting period)

Name of Additive	Date	Quantity	Units

Name of Additive	Date	Quantity	Units

☐ e. Check here if any additional Remedial Additives were applied. Attach list of additional additives and include Name of Additive, Date Applied, Quantity Applied and Units (in gals. or lbs.)

F. SHUTDOWNS OF ACTIVE REMEDIAL SYSTEM, AEPMM OR ACTIVE REMEDIAL MONITORING PROGRAM: (check all that apply)

☐ 1. The Active Remedial System or AEPMM had unscheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Unscheduled Shutdowns: _____ b. Total Number of Days of Unscheduled Shutdowns: _____

c. Reason(s) for Unscheduled Shutdowns: _____

☐ 2. The Active Remedial System or AEPMM had scheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Scheduled Shutdowns: _____ b. Total Number of Days of Scheduled Shutdowns: _____

c. Reason(s) for Scheduled Shutdowns: _____

☐ 3. The Active Remedial System, AEPMM or Active Remedial Monitoring Program was permanently shutdown/discontinued during the Reporting Period.

a. Date of Final System or Monitoring Program Shutdown: _____ (mm/dd/yyyy)

☐ b. No Further Effluent Discharge

☐ c. No Further Application of Remedial Additives planned; sufficient monitoring completed to demonstrate compliance with 310 CMR 40.0046.

☐ d. No Further Submittals Planned.

☐ e. Other: Describe: _____

DRAFT COPY

G. SUMMARY STATEMENTS: (check all that apply for the current reporting period)

☑ 1. All Active Remedial System checks and effluent analyses required by the approved plan and/or permit were performed when applicable.

☑ 2. There were no significant problems or prolonged (>25% of reporting period) unscheduled shutdowns of the Active Remedial System.

☑ 3. The Active Remedial System, AEPMM or Active Remedial Monitoring Program operated in conformance with the MCP, and all applicable approval conditions and/or permits.

4. Indicate any Operational Problems or Notes:

☑ 5. Check here if additional/supporting Information, data, maps, and/or sketches are attached to the form.

Appendix B Property Owner Notification Letters

Consulting Engineers and Scientists

November 18, 2025
Project 04516-3

Sanctuary Condominium Trust
Charlesgate
867 Boylston Street
Boston, MA 02116

To Whom It May Concern:

Re: Groundwater Sampling
60 Tufts Street
Somerville, Massachusetts

Thank you for permitting GEI to conduct groundwater sampling at your property located at 60 Tufts Street in Somerville, Massachusetts. Following groundwater sampling, we are providing you with a "Notice of Environmental Sampling Form (BWSC-123)," as required by the Massachusetts Department of Environmental Protection (MassDEP).

Thank you for your continued assistance. Please contact me at 781-721-4012 or igladstone@geiconsultants.com if you have any questions.

Sincerely,

GEI CONSULTANTS, INC.

Ileen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President

Christopher Coner, CHMM
Project Manager

NMT:jam
Enclosure
c: Catherine Malagrida, UniFirst Corporation
MassDEP-NERO (as part of Status Report)

GEI Consultants, Inc.
100 Quannapowitt Parkway, Suite 300, Wakefield MA 01880
781.721.4000

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: Director

2. Street Address: Sanctuary Condominium Trust, Charlesgate, 867 Boylston St

City/Town: Boston, MA Zip Code: 02116

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☐ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☐ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: 60 Tufts Street

City/Town: Somerville, MA Zip Code: 02145-4110

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action
☐ Release Abatement Measure
☐ Utility-related Abatement Measure
☐ Phase I Initial Site Investigation
☐ Phase II Comprehensive Site Assessment
☐ Phase III Feasibility Evaluation
☐ Phase IV Remedy Implementation Plan
☑ Phase V/Remedy Operation Status
☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☑ residential ☐ commercial ☐ industrial ☐ school/playground ☑ Other Condominiums (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Semi-Annual Groundwater Sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

December 31, 2025
Project No. 04516-3

Sanctuary Condominium Trust
Charlesgate
867 Boylston Street
Boston, MA 02116

Re: Groundwater Sampling Results
60 Tufts Street
Somerville, Massachusetts

To Whom It May Concern:

On behalf of UniFirst Corporation, GEI Consultants, Inc. is providing results of the groundwater sampling conducted at 60 Tufts Street on November 12, 2025. The sampling was conducted as part of our investigation related to the site at 50 Tufts Street in Somerville, Massachusetts. We collected groundwater samples from monitoring wells MW201 and MW202, located on your property.

The groundwater samples were submitted for chemical testing for volatile organic compounds (VOCs). We have attached a summary table of the chemicals detected in the groundwater samples along with the previous sampling results, and the laboratory data sheets for the recent sampling.

Thank you for permitting GEI to conduct groundwater sampling at your property.

Individuals and public officials may request additional public involvement activities under the Massachusetts Contingency Plan (MCP; 310 CMR 40.1403(10) and 40.1404). The property owner may also request additional documentation, such as that listed at 310 CMR 40.0017(3), associated with the above-referenced samples. We will provide such additional documentation within 30 days of our receipt of such a request.

We appreciate your continued cooperation throughout the sampling process. If you have any immediate questions regarding the water testing results, please do not hesitate to contact me at 781.721.4012 or igladstone@geiconsultants.com.

Sincerely,

GEI CONSULTANTS, INC.

Ileen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President

Christopher O. Coner, CHMM
Project Manager

Enclosures
cc: Catherine Malagrida, UniFirst Corporation
MassDEP-NERO (as part of Status Report)

ISG/COC:bdp
\\geiconsultants.com\data\Data_Storage\Private\04516\2.0 Correspondence\2.12 Subsurface\2.12.2 Groundwater Evaluation\2025\November 2025 Sampling\60 Tufts\GW Results\60 Tufts GW Result Letter November 2025.docx

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: Property Manager
2. Street Address: Sanctuary Condominium Trust, Charlesgate, 867 Boylston St

City/Town: Boston, MA Zip Code: 02116

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☑ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☑ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: 60 Tufts Street

City/Town: Somerville, MA Zip Code: 02145-4110

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☑ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☑ residential ☐ commercial ☐ industrial ☐ school/playground ☑ Other Condominiums (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Annual Groundwater Sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	MW201 11 to 21 7/19/07 GEI	MW201 11 to 21 10/12/07 GEI	MW201 11 to 21 1/11/08 GEI	MW201 11 to 21 4/15/08 GEI	MW201 11 to 21 4/3/24 GEI	MW201 11 to 21 4/23/25 GEI	MW201 11 to 21 11/12/25 GEI	MW202 10.5 to 20.5 7/19/07 GEI	MW202 10.5 to 20.5 10/12/07 GEI	MW202 10.5 to 20.5 1/11/08 GEI	MW202 10.5 to 20.5 4/15/08 GEI	MW202 10.5 to 20.5 7/15/08 GEI	MW202 10.5 to 20.5 10/21/08 GEI	MW202 10.5 to 20.5 1/13/09 GEI	MW202 10.5 to 20.5 4/15/09 GEI	MW202 10.5 to 20.5 7/14/09 GEI	MW202 10.5 to 20.5 10/14/09 GEI	MW202 10.5 to 20.5 4/12/10 GEI	MW202 10.5 to 20.5 4/22/11 GEI	MW202 10.5 to 20.5 4/17/12 GEI	MW202 10.5 to 20.5 4/23/13 GEI	MW202 10.5 to 20.5 5/1/14 GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																									
Acetone			50000	50000	NT	< 5.0 J+	< 5.0	< 5.0	<5.0	<5.0	<5.0	NT	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 10	< 10
Acrylonitrile			NS	NS	NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000	NT	< 0.50	< 0.50	< 0.50	<0.5	<0.50	<0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J+	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromochloromethane			NS	NS	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane			6	50000	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			700	50000	NT	< 1.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			7	800	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0 G	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Butanone (MEK)			50000	50000	NT	< 5.0 J+	< 5.0	< 5.0	<5.0	<5.0	<5.0	NT	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Butylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			NS	NS	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			2	5000	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			50	20000	NT	0.47 J	0.40 J	0.24 J	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.89 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			NS	NS	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Chlorotoluene			NS	NS	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene			NS	NS	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane			20	50000	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane			2	50000	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene			8000	2000	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene			60	8000	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS	NT	< 2.0 J+	< 2.0	< 2.0	<2.0	<2.0	<2.0	NT	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 K-
1,1-Dichloroethane			2000	20000	< 1.0	0.66 J	< 1.0	0.23 J	<1.0	<1.0	<1.0	0.50 J	< 1.0	< 1.0	0.46 J	< 1.0	< 1.0	0.34 J	< 1.0	< 1.0	3.1	5.0	1.1	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane			5	20000	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000	4.7	4.9	5.2	3.0	1.3	<1.0	<1.0	1.1	< 1.0	< 1.0	2.9	2.8	1.6	1.9	3.2	< 1.0	< 1.0	< 1.0	15.5	< 1.0	2.4	0.93 J
cis-1,2-Dichloroethylene			20	50000	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethylene			90	50000	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane			3	50000	NT	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3-Dichloropropane					NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane					NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene					NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene			10	200	NT	< 0.50	< 0.50	< 0.50	<0.4	<0.40	<0.40	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene			10	200	NT	< 0.50	< 0.50	< 0.50	<0.4	<0.40	<0.40	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl ether (Ethyl ether)					NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Di-Isopropyl ether					NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,4-Dioxane			5000	50000	NT	< 25	< 25	< 25	<250	<250	<250	NT	< 25	< 25	< 25	< 25	< 25	< 25 J+	< 25 J+	< 25	< 25	< 25	< 25	< 25 K-	< 50	< 50
Ethylbenzene			20000	5000	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000	NT	< 5.0	< 5.0	< 5.0	<0.6	<0.60	<0.60	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone			NS	NS	NT	< 5.0 J+	< 5.0	< 5.0	<5.0	<5.0	<5.0	NT	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene			NS	NS	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	11.3	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000	NT	75.8	240	0.26 J	<2.0	<2.0	<2.0	NT	< 1.0	< 1.0	1.2	< 1.0	< 1.0	0.92 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 K-	< 1.0
4-Methyl-2-pentanone (MIBK)			50000	50000	NT	< 5.0	< 5.0	< 5.0	<5	<5.0	<5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride			2000	50000	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			700	20000	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene			100	6000	NT	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tert-amyl methyl ether			NS	NS	NT	4.6	17.7	< 2.0	<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000	NT	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane			9	50000	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50
Tetrachloroethylene (PCE)			20	30000	5.1	19.6	25.8	18.0	4.8	9 K+	13	17.2	14.6	21.8	55.6	48.5	39.4	37.5	53.5	52.6	61.8	84.9	86.5	20.6	37.0	31.4
Tetrahydrofuran			NS	NS	NT	< 10	< 10	< 10	<2.0	<2.0	<2.0	NT	< 10	< 10	< 10	< 10	< 10	< 10	< 10 J+	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene			50000	40000	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene			200	50000	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000	9.8	36.3	32.9	7.3	3.9	2.7	1.9	12.5	4.4	4.2	35.2	18.9	7.1	8.0	15.7	6.6	14.3 J+	16.8	18.6	2.8	5.2	6.9
1,1,2-Trichloroethane			900	50000	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000	4.5	7.2	8.2	6.4	2.1	2.5	3.2	2.2	1.5	1.6	6.9	8.6	5.3	5.6	11.8 J+	7.2	9.8	12.9	8.2	1.5	2.5	1.5
Trichlorofluoromethane			NS	NS	NT	< 1.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane			NS	NS	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride			2	50000	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m,p-Xylene			3000	5000	NT	< 1.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene			3000	5000	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylene			3000	5000	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location: MW202 Sample Name: MW202 Well Screen Interval (ft bgs): 10.5 to 20.5 Sample Date: 4/2/15 Collected By: GEI	MW202 MW202 10.5 to 20.5 4/29/16 GEI	MW202 MW202 10.5 to 20.5 4/17/17 GEI	MW202 MW202 10.5 to 20.5 4/4/18 GEI	MW202 MW202 10.5 to 20.5 4/16/19 GEI	MW202 MW202 10.5 to 20.5 4/17/20 GEI	MW202 MW202 10.5 to 20.5 4/14/21 GEI	MW202 MW202 10.5 to 20.5 4/13/22 GEI	MW202 MW202 10.5 to 20.5 4/18/23 GEI	MW202 MW202 10.5 to 20.5 4/3/24 GEI	MW202 MW202 10.5 to 20.5 4/23/25 GEI	MW202 MW202 10.5 to 20.5 11/12/25 GEI
Volatile Organic Compounds (VOCs)	8260	µg/l														
Acetone			50000	50000	< 10	9.7	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10
Acrylonitrile			NS	NS	NT										NT	NT
Benzene			1000	10000	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50
Bromobenzene			NS	NS	< 5.0	< 5.0								<2.0	<2.0	<2.0
Bromochloromethane			NS	NS	< 5.0	< 5.0								<2.0	<2.0	<2.0
Bromodichloromethane			6	50000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform			700	50000	< 1.0	< 1.0								<2.0	<2.0	<2.0
Bromomethane			7	800	< 2.0	< 2.0 G								<2.0	<2.0	<2.0
2-Butanone (MEK)			50000	50000	< 5.0	< 5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Butylbenzene			NS	NS	< 5.0	< 5.0								<2.0	<2.0	<2.0
sec-Butylbenzene			NS	NS	< 5.0	< 5.0								<2.0	<2.0	<2.0
tert-Butylbenzene			NS	NS	< 5.0	< 5.0								<2.0	<2.0	<2.0
Carbon disulfide			NS	NS	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride			2	5000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene			200	1000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane			NS	NS	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroform			50	20000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane			NS	NS	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2-Chlorotoluene			NS	NS	< 5.0	< 5.0								<2.0	<2.0	<2.0
4-Chlorotoluene			NS	NS	< 5.0	< 5.0								<2.0	<2.0	<2.0
1,2-Dibromo-3-chloropropane			NS	NS	< 5.0	< 5.0								<2.0	<2.0	<2.0
Dibromochloromethane			20	50000	< 1.0	< 1.0								<1.0	<1.0	<1.0
1,2-Dibromoethane			2	50000	< 2.0	< 2.0								<2.0	<2.0	<2.0
Dibromomethane (Methylene bromide)			NS	NS	< 5.0	< 5.0								<2.0	<2.0	<2.0
1,2-Dichlorobenzene			8000	2000	< 1.0	< 1.0								<1.0	<1.0	<1.0
1,3-Dichlorobenzene			6000	50000	< 1.0	< 1.0								<1.0	<1.0	<1.0
1,4-Dichlorobenzene			60	8000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane			NS	NS	< 2.0 K-	< 2.0 K-								<2.0	<2.0	<2.0
1,1-Dichloroethane			2000	20000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane			5	20000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene			80	30000	0.92 J	< 1.0	0.46 J	1.1	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethylene			20	50000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethylene			90	50000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane			3	50000	< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane					< 5.0	< 5.0								<2.0	<2.0	<2.0
2,2-Dichloropropane					< 5.0	< 5.0								<2.0	<2.0	<2.0
1,1-Dichloropropene					< 5.0	< 5.0								<2.0	<2.0	<2.0
cis-1,3-Dichloropropene			10	200	< 0.50	< 0.50								<0.4	<0.40	<0.40
trans-1,3-Dichloropropene			10	200	< 0.50	< 0.50								<0.4	<0.40	<0.40
Diethyl ether (Ethyl ether)					< 5.0	< 5.0								<2.0	<2.0	<2.0
Di-Isopropyl ether					< 2.0	< 2.0								<2.0	<2.0	<2.0
1,4-Dioxane			5000	50000	<25	<25	<130	<130	<130	<250	<250	<250	<250	<250	<250	<50
Ethylbenzene			20000	5000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachlorobutadiene			50	3000	< 5.0	< 5.0								<0.6	<0.60	<0.60
2-Hexanone			NS	NS	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isopropyl benzene			NS	NS	< 5.0	< 5.0								<2.0	<2.0	<2.0
4-Isopropyltoluene			NS	NS	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methyl tert-butyl ether			50000	50000	< 1.0	< 1.0	<1.0	<1.0	1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Methyl-2-pentanone (MIBK)			50000	50000	< 5.0	< 5.0								<5	<5.0	<5.0
Methylene chloride			2000	50000	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Naphthalene			700	20000	< 5.0	< 5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
n-Propylbenzene			NS	NS	< 5.0	< 5.0								<2.0	<2.0	<2.0
Styrene			100	6000	< 5.0	< 5.0								<1.0	<1.0	<1.0
Tert-amyl methyl ether			NS	NS	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Tert-butyl ethyl ether			NS	NS	< 2.0	< 2.0								<2.0	<2.0	<2.0
1,1,1,2-Tetrachloroethane			10	50000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane			9	50000	< 0.50									<1.0	<1.0	<1.0
Tetrachloroethylene (PCE)			20	30000	28.1	40.8 K+	20.0	39.4	68.9	20.0	14.0	5.4	12.0	9.4	13	24
Tetrahydrofuran			NS	NS	< 10	< 10	<10	<10	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene			50000	40000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene			NS	NS	< 5.0									<2.0	<2.0	<2.0
1,2,4-Trichlorobenzene			200	50000	< 5.0									<2.0	<2.0	<2.0
1,1,1-Trichloroethane (TCA)			4000	20000	7.4	7.1	3.5	8.1	9.8	2.7	1.7	<1.0	1.2	1.4	1.5	3.8
1,1,2-Trichloroethane			900	50000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethylene (TCE)			5	5000	1.4	1.5	0.81 J	1.5	2.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane			NS	NS	< 1.0									<2.0	<2.0	<2.0
1,2,3-Trichloropropane			NS	NS	< 5.0									<2.0	<2.0	<2.0
1,2,4-Trimethylbenzene			NS	NS	< 5.0									<2.0	<2.0	<2.0
1,3,5-Trimethylbenzene			NS	NS	< 5.0									<2.0	<2.0	<2.0
Vinyl chloride			2	50000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m,p-Xylene			3000	5000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene			3000	5000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Xylene			3000	5000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW201	MW201	MW201	MW201	MW201	MW201	MW201	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202
					Sample Name:	MW201	MW201	MW201	MW201	MW201	MW201	MW201	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202
					Well Screen Interval (ft bgs):	11 to 21	11 to 21	11 to 21	11 to 21	11 to 21	11 to 21	11 to 21	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5
					Sample Date:	7/19/07	10/12/07	1/11/08	4/15/08	4/3/24	4/23/25	11/12/25	7/19/07	10/12/07	1/11/08	4/15/08	7/15/08	10/21/08	1/13/09	4/15/09	7/14/09	10/14/09	4/12/10	4/22/11	4/17/12	4/23/13	5/1/14
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																										
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																						
Iron			NS	NS																						
Manganese			NS	NS																						
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																						
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																						
Ethane	8015	µg/l	NS	NS																						
Ethylene	8015	µg/l	NS	NS																						
Alkalinity	E310.1	µg/l*	NS	NS																						
Chloride	E325.3	µg/l	NS	NS																						
Chlorine, Total Residual	E330.4	µg/l																								
Iron, Ferrous	3500FE B	µg/l	NS	NS																						
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																						
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																						
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																						
Sodium	6010C	µg/l	NS	NS																						
Sulfate	E375.4	µg/l	NS	NS																						
Sulfide	E376.1	µg/l																								
Surfactants	E425.1	µg/l	NS	NS																						
Total Organic Carbon	E415.1	µg/l	NS	NS																						

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location: MW202 / Sample Name: MW202 10.5 to 20.5 4/2/15 GEI	MW202 10.5 to 20.5 4/29/16 GEI	MW202 10.5 to 20.5 4/17/17 GEI	MW202 10.5 to 20.5 4/4/18 GEI	MW202 10.5 to 20.5 4/16/19 GEI	MW202 10.5 to 20.5 4/17/20 GEI	MW202 10.5 to 20.5 4/14/21 GEI	MW202 10.5 to 20.5 4/13/22 GEI	MW202 10.5 to 20.5 4/18/23 GEI	MW202 10.5 to 20.5 4/3/24 GEI	MW202 10.5 to 20.5 4/23/25 GEI	MW202 10.5 to 20.5 11/12/25 GEI
Total Petroleum Hydrocarbons (TPH)				mg/L	NT										NT	NT
TPH-DRO																
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900												
Iron			NS	NS												
Manganese			NS	NS												
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS												
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS												
Ethane	8015	µg/l	NS	NS												
Ethylene	8015	µg/l	NS	NS												
Alkalinity	E310.1	µg/l*	NS	NS												
Chloride	E325.3	µg/l	NS	NS												
Chlorine, Total Residual	E330.4	µg/l														
Iron, Ferrous	3500FE B	µg/l	NS	NS												
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS												
Nitrogen, Nitrate	E353.2	µg/l	NS	NS												
Nitrogen, Nitrite	E354.1	µg/l	NS	NS												
Sodium	6010C	µg/l	NS	NS												
Sulfate	E375.4	µg/l	NS	NS												
Sulfide	E376.1	µg/l														
Surfactants	E425.1	µg/l	NS	NS												
Total Organic Carbon	E415.1	µg/l	NS	NS												

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571940
Report Date: 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-04
Client ID: 045163-MW201
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/12/25 09:15
Date Received: 11/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 15:00
Analyst: EEH
Extraction Method: EPA 5030B
Extraction Date: 11/13/25 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	13		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	1.9		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	3.2		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-04 Date Collected: 11/12/25 09:15

Client ID: 045163-MW201 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND	R-05	ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-04 Date Collected: 11/12/25 09:15

Client ID: 045163-MW201 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND	R-05	ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571940
Report Date: 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-06
Client ID: 045163-MW202
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/12/25 11:55
Date Received: 11/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/18/25 05:03
Analyst: MFF
Extraction Method: EPA 5030B
Extraction Date: 11/13/25 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	24		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	3.8		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-06 Date Collected: 11/12/25 11:55

Client ID: 045163-MW202 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND	R-05	ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-06 Date Collected: 11/12/25 11:55

Client ID: 045163-MW202 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND	V-05	ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	93		70-130

Consulting Engineers and Scientists

November 18, 2025
Project 04516-3

ITS Realty, LLC
87 Baker Street
Belmont, MA 02478

To Whom It May Concern:

Re: Groundwater Sampling
120 Washington Street
Somerville, Massachusetts

Thank you for permitting GEI to conduct groundwater sampling at your property located at 120 Washington Street in Somerville, Massachusetts. Following groundwater sampling, we are providing you with a "Notice of Environmental Sampling Form (BWSC-123)," as required by the Massachusetts Department of Environmental Protection (MassDEP).

Thank you for your continued assistance. Please contact me at 781-721-4012 or igladstone@geiconsultants.com if you have any questions.

Sincerely,

GEI CONSULTANTS, INC.

Ileen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President

Christopher Coner, CHMM
Project Manager

NMT:jam
Enclosure
c: Catherine Malagrida, UniFirst Corporation
MassDEP-NERO (as part of Status Report)

GEI Consultants, Inc.
100 Quannapowitt Parkway, Suite 300, Wakefield MA 01880
781.721.4000

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: ITS Realty LLC

2. Street Address: 87 Baker Street

City/Town: Belmont, MA Zip Code: 02478

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☐ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☐ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: 120 Washington Street

City/Town: Somerville, MA Zip Code: 02143

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☑ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☐ residential ☑ commercial ☐ industrial ☐ school/playground ☑ Other parking lot (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Annual Groundwater Sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

December 31, 2025
Project No. 04516-3

ITS Realty, LLC
87 Baker Street
Belmont, MA 02478

Re: Groundwater Sampling Results
120 Washington Street
Somerville, Massachusetts

To Whom It May Concern:

On behalf of UniFirst Corporation, GEI Consultants, Inc. is providing results of the groundwater sampling conducted at 120 Washington Street on November 10, 2025. The sampling was conducted as part of our investigation related to the site at 50 Tufts Street in Somerville, Massachusetts. We collected groundwater samples from monitoring wells MW117S, MW117T, and MW117D, located on your property.

The groundwater samples were submitted for chemical testing for volatile organic compounds (VOCs). We have attached a summary table of the chemicals detected in the groundwater samples along with the previous sampling results, and the laboratory data sheets for the recent sampling.

Thank you for permitting GEI to conduct groundwater sampling at your property.

Individuals and public officials may request additional public involvement activities under the Massachusetts Contingency Plan (MCP; 310 CMR 40.1403(10) and 40.1404). The property owner may also request additional documentation, such as that listed at 310 CMR 40.0017(3), associated with the above-referenced samples. We will provide additional documentation within 30 days of our receipt of such a request.

We appreciate your continued cooperation throughout the sampling process. If you have any immediate questions regarding the water testing results, please do not hesitate to contact me at 781.721.4012 or igladstone@geiconsultants.com.

Sincerely,

GEI CONSULTANTS, INC.

Ileen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President

Christopher O. Coner, CHMM
Project Manager

Enclosures
cc: Catherine Malagrida, UniFirst Corporation
MassDEP-NERO (as part of Status Report)

ISG/COC:bdp
\\geiconsultants.com\data\Data_Storage\Private\04516\2.0 Correspondence\2.12 Subsurface\2.12.2 Groundwater Evaluation\2025\November 2025 Sampling\60 Tufts\GW Results\60 Tufts GW Result Letter November 2025.docx

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: ITS Realty LLC

2. Street Address: 87 Baker Street

City/Town: Belmont, MA Zip Code: 02478

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☑ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☑ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: 120 Washington Street

City/Town: Somerville, MA Zip Code: 02143

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☑ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☐ residential ☑ commercial ☐ industrial ☐ school/playground ☑ Other parking lot (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Annual Groundwater Sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

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3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Sample Location:					MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D
Sample Name:					MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D
Well Screen Interval (ft bgs):					60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70	60 to 70
Sample Date:					7/19/07	10/11/07	1/15/08	4/16/08	7/16/08	10/21/08	1/13/09	4/14/09	7/15/09	10/14/09	4/13/10	4/20/11	4/16/12	4/24/13	5/1/14	4/2/15	4/28/16	4/17/17	4/3/18	4/15/19	4/16/20	4/13/21	4/12/22	4/17/23	4/2/24	4/22/25	11/10/25
Collected By:					GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Analyte	**Method**	**Units**	**Method 1 GW-2 Standard**	**Method 1 GW-3 Standard**																											
Volatile Organic Compounds (VOCs)	8260	µg/l																													
Acetone			50000	50000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	<10	<10	<10	<5.0	<5.0	5.8	<5.0	<5.0	<5.0	<10.0
Acrylonitrile			NS	NS	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT									NT	NT
Benzene			1000	10000	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50	<0.50
Bromobenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
Bromochloromethane			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
Bromodichloromethane			6	50000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform			700	50000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<2.0	<2.0	<2.0
Bromomethane			7	800	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0
2-Butanone (MEK)			50000	50000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Butylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
sec-Butylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
tert-Butylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
Carbon disulfide			NS	NS	NT	< 5.0	< 5.0	6.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride			2	5000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene			200	1000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane			NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroform			50	20000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.0	0.43 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane			NS	NS	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2-Chlorotoluene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
4-Chlorotoluene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
1,2-Dibromo-3-chloropropane			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
Dibromochloromethane			20	50000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0
1,2-Dibromoethane			2	50000	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0
Dibromomethane (Methylene bromide)			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
1,2-Dichlorobenzene			8000	2000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0
1,3-Dichlorobenzene			6000	50000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0
1,4-Dichlorobenzene			60	8000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane			NS	NS	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 K-	< 2.0 K-	< 2.0 K-								<2.0	<2.0	<2.0
1,1-Dichloroethane			2000	20000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane			5	20000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene			80	30000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethylene			20	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethylene			90	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane			3	50000	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane					NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
2,2-Dichloropropane					NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
1,1-Dichloropropene					NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
cis-1,3-Dichloropropene			10	200	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50								<0.4	<0.40	<0.40
trans-1,3-Dichloropropene			10	200	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50								<0.4	<0.40	<0.40
Diethyl ether (Ethyl ether)					NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
Di-Isopropyl ether					NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0
1,4-Dioxane			5000	50000	NT	< 25	< 25	< 25	< 25	< 25	< 25 J+	< 25 J+	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	<130	<130	<130	<250	<250	<250	<250	<250	<250	<250	<50
Ethylbenzene			20000	5000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachlorobutadiene			50	3000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0						<0.6	<0.60	<0.60
2-Hexanone			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isopropyl benzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
4-Isopropyltoluene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methyl tert-butyl ether			50000	50000	NT	1.6	2.3	1.5	< 1.0	1.5	0.96 J	0.86 J	1.3	1.5	1.2	< 1.0	< 1.0	6.8	< 1.0	< 1.0	0.66 J	1.3	<1.0	1.4	2	2	<2.0	<2.0	<2.0	<2.0	<2.0
4-Methyl-2-pentanone (MIBK)			50000	50000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<5.0	<5.0	<5.0
Methylene chloride			2000	50000	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Naphthalene			700	20000	NT	< 5.0	4.9 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
n-Propylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
Styrene			100	6000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<1.0	<1.0	<1.0
Tert-amyl methyl ether			NS	NS	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Tert-butyl ethyl ether			NS	NS	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0
1,1,1,2-Tetrachloroethane			10	50000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane			9	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50								<1.0	<1.0	<1.0
Tetrachloroethylene (PCE)			20	30000	0.54 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrahydrofuran			NS	NS	NT	< 10	< 10	< 10	< 10	< 10	< 10	< 10 J+	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	MW117S 5 to 20 7/18/07 GEI	MW117S 5 to 20 10/15/07 GEI	MW117S 5 to 20 1/11/08 GEI	MW117S 5 to 20 4/16/08 GEI	MW117S 5 to 20 7/16/08 GEI	MW117S 5 to 20 10/21/08 GEI	MW117S 5 to 20 1/13/09 GEI	MW117S 5 to 20 4/14/09 GEI	MW117S 5 to 20 7/15/09 GEI	MW117S 5 to 20 10/14/09 GEI	MW117S 5 to 20 1/13/10 GEI	MW117S 5 to 20 4/21/11 GEI	MW117S 5 to 20 4/16/12 GEI	MW117S 5 to 20 4/24/13 GEI	MW117S 5 to 20 5/1/14 GEI	MW117S 5 to 20 4/2/15 GEI	MW117S 5 to 20 4/27/16 GEI	MW117S 5 to 20 4/17/17 GEI	MW117S 5 to 20 4/3/18 GEI	MW117S 5 to 20 4/15/19 GEI	MW117S 5 to 20 4/16/20 GEI	MW117S 5 to 20 4/13/21 GEI	MW117S 5 to 20 4/12/22 GEI	MW117S 5 to 20 4/17/23 GEI	MW117S 5 to 20 4/2/24 GEI	MW117S 5 to 20 4/22/25 GEI	MW117S 5 to 20 11/10/25 GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																														
Acetone			50000	50000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	<10	<10	<0.10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10
Acrylonitrile			NS	NS	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT										NT	NT
Benzene			1000	10000	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50	<0.50
Bromobenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
Bromochloromethane			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
Bromodichloromethane			6	50000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform			700	50000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<2.0	<2.0	<2.0
Bromomethane			7	800	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0
2-Butanone (MEK)			50000	50000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Butylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
sec-Butylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
tert-Butylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
Carbon disulfide			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride			2	5000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene			200	1000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane			NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroform			50	20000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane			NS	NS	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2-Chlorotoluene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
4-Chlorotoluene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
1,2-Dibromo-3-chloropropane			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
Dibromochloromethane			20	50000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0
1,2-Dibromoethane			2	50000	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0
Dibromomethane (Methylene bromide)			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
1,2-Dichlorobenzene			8000	2000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0
1,3-Dichlorobenzene			6000	50000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0
1,4-Dichlorobenzene			60	8000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane			NS	NS	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 K-	< 2.0 K-	< 2.0 K-								<2.0	<2.0	<2.0
1,1-Dichloroethane			2000	20000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane			5	20000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene			80	30000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethylene			20	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethylene			90	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane			3	50000	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane					NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
2,2-Dichloropropane					NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
1,1-Dichloropropene					NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
cis-1,3-Dichloropropene			10	200	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50								<0.4	<0.40	<0.40
trans-1,3-Dichloropropene			10	200	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50								<0.4	<0.40	<0.40
Diethyl ether (Ethyl ether)					NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
Di-Isopropyl ether					NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0
1,4-Dioxane			5000	50000	NT	< 25	< 25	< 25	< 25	< 25	< 25 J+	< 25 J+	< 25	< 25	< 25	< 25	< 25	< 50	< 25	< 25	< 25	<130	<130	<130	<250	<250	<250	<250	<250	<250	<250
Ethylbenzene			20000	5000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachlorobutadiene			50	3000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0							<0.6	<0.60	<0.60
2-Hexanone			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isopropyl benzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
4-Isopropyltoluene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methyl tert-butyl ether			50000	50000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 K-	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Methyl-2-pentanone (MIBK)			50000	50000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<5.0	<5.0	<5.0
Methylene chloride			2000	50000	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Naphthalene			700	20000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
n-Propylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
Styrene			100	6000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<1.0	<1.0	<1.0
Tert-amyl methyl ether			NS	NS	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Tert-butyl ethyl ether			NS	NS	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0
1,1,1,2-Tetrachloroethane			10	50000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane			9	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50								<1.0	<1.0	<1.0
Tetrachloroethylene (PCE)			20	30000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrahydrofuran			NS	NS	NT	< 10	< 10	< 10	< 10	< 10	< 10 J+	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	MW117T 35 to 45 7/19/07 GEI	MW117T 35 to 45 10/11/07 GEI	MW117T 35 to 45 1/15/08 GEI	MW117T 35 to 45 4/16/08 GEI	MW117T 35 to 45 7/16/08 GEI	MW117T 35 to 45 10/21/08 GEI	MW117T 35 to 45 1/13/09 GEI	MW117T 35 to 45 4/14/09 GEI	MW117T 35 to 45 7/15/09 GEI	MW117T 35 to 45 10/16/09 GEI	MW117T 35 to 45 4/13/10 GEI	MW117T 35 to 45 4/21/11 GEI	MW117T 35 to 45 4/16/12 GEI	MW117T 35 to 45 4/23/13 GEI	MW117T 35 to 45 5/1/14 GEI	MW117T 35 to 45 4/2/15 GEI	MW117T 35 to 45 4/27/16 GEI	MW117T 35 to 45 4/17/17 GEI	MW117T 35 to 45 4/3/18 GEI	MW117T 35 to 45 4/15/19 GEI	MW117T 35 to 45 4/16/20 GEI	MW117T 35 to 45 4/13/21 GEI	MW117T 35 to 45 4/12/22 GEI	MW117T 35 to 45 4/17/23 GEI	MW117T 35 to 45 4/2/24 GEI	MW117T 35 to 45 4/22/25 GEI	MW117T 35 to 45 11/10/25 GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																														
Acetone			50000	50000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 K-	< 10	< 10	< 10	< 10	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10
Acrylonitrile			NS	NS	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT									NT	NT
Benzene			1000	10000	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50	<0.50
Bromobenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
Bromochloromethane			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
Bromodichloromethane			6	50000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform			700	50000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<2.0	<2.0	<2.0
Bromomethane			7	800	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0
2-Butanone (MEK)			50000	50000	NT	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Butylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
sec-Butylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
tert-Butylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
Carbon disulfide			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride			2	5000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene			200	1000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane			NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroform			50	20000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane			NS	NS	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2-Chlorotoluene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
4-Chlorotoluene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
1,2-Dibromo-3-chloropropane			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
Dibromochloromethane			20	50000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0
1,2-Dibromoethane			2	50000	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0
Dibromomethane (Methylene bromide)			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
1,2-Dichlorobenzene			8000	2000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0
1,3-Dichlorobenzene			6000	50000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0
1,4-Dichlorobenzene			60	8000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane			NS	NS	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 K-	< 2.0 K-	< 2.0 K-								<2.0	<2.0	<2.0
1,1-Dichloroethane			2000	20000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane			5	20000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene			80	30000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethylene			20	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethylene			90	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane			3	50000	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane					NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
2,2-Dichloropropane					NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
1,1-Dichloropropene					NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
cis-1,3-Dichloropropene			10	200	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50								<0.4	<0.40	<0.40
trans-1,3-Dichloropropene			10	200	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50								<0.4	<0.40	<0.40
Diethyl ether (Ethyl ether)					NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
Di-Isopropyl ether					NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0
1,4-Dioxane			5000	50000	NT	< 25	< 25	< 25	< 25	< 25	< 25 J+	< 25	< 25	< 25	< 25	< 25	< 25	< 50	< 25	< 25	< 25	<130	<130	<130	<250	<250	<250	<250	<250	<250	<50
Ethylbenzene			20000	5000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachlorobutadiene			50	3000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0						<0.6	<0.60	<0.60
2-Hexanone			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isopropyl benzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
4-Isopropyltoluene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methyl tert-butyl ether			50000	50000	NT	3.4	9.8	4.8	1.7	2.8	1.9	4.1	1.5	7.0	1.6	1.4	< 1.0	< 1.0 K-	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Methyl-2-pentanone (MIBK)			50000	50000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<5.0	<5.0	<5.0
Methylene chloride			2000	50000	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Naphthalene			700	20000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
n-Propylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
Styrene			100	6000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<1.0	<1.0	<1.0
Tert-amyl methyl ether			NS	NS	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Tert-butyl ethyl ether			NS	NS	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0
1,1,1,2-Tetrachloroethane			10	50000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane			9	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50								<1.0	<1.0	<1.0
Tetrachloroethylene (PCE)			20	30000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrahydrofuran			NS	NS	NT	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	MW117D 60 to 70 7/19/07 GEI	MW117D 60 to 70 10/11/07 GEI	MW117D 60 to 70 1/15/08 GEI	MW117D 60 to 70 4/16/08 GEI	MW117D 60 to 70 7/16/08 GEI	MW117D 60 to 70 10/21/08 GEI	MW117D 60 to 70 1/13/09 GEI	MW117D 60 to 70 4/14/09 GEI	MW117D 60 to 70 7/15/09 GEI	MW117D 60 to 70 10/14/09 GEI	MW117D 60 to 70 4/13/10 GEI	MW117D 60 to 70 4/20/11 GEI	MW117D 60 to 70 4/16/12 GEI	MW117D 60 to 70 4/24/13 GEI	MW117D 60 to 70 5/1/14 GEI	MW117D 60 to 70 4/2/15 GEI	MW117D 60 to 70 4/28/16 GEI	MW117D 60 to 70 4/17/17 GEI	MW117D 60 to 70 4/3/18 GEI	MW117D 60 to 70 4/15/19 GEI	MW117D 60 to 70 4/16/20 GEI	MW117D 60 to 70 4/13/21 GEI	MW117D 60 to 70 4/12/22 GEI	MW117D 60 to 70 4/17/23 GEI	MW117D 60 to 70 4/2/24 GEI	MW117D 60 to 70 4/22/25 GEI	MW117D 60 to 70 11/10/25 GEI
Toluene			50000	40000	NT	0.98 J	< 1.0	0.34 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
1,2,4-Trichlorobenzene			200	50000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
1,1,1-Trichloroethane (TCA)			4000	20000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane			900	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethylene (TCE)			5	5000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane			NS	NS	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<2.0	<2.0	<2.0
1,2,3-Trichloropropane			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
1,2,4-Trimethylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
1,3,5-Trimethylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
Vinyl chloride			2	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m,p-Xylene			3000	5000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene			3000	5000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Xylene			3000	5000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Petroleum Hydrocarbons (TPH)				mg/L	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT										NT	NT
TPH-DRO																															
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																											
Iron			NS	NS																											
Manganese			NS	NS																											
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																											
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																											
Ethane	8015	µg/l	NS	NS																											
Ethylene	8015	µg/l	NS	NS																											
Alkalinity	E310.1	µg/l*	NS	NS																											
Chloride	E325.3	µg/l	NS	NS																											
Chlorine, Total Residual	E330.4	µg/l																													
Iron, Ferrous	3500FE B	µg/l	NS	NS																											
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																											
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																											
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																											
Sodium	6010C	µg/l	NS	NS																											
Sulfate	E375.4	µg/l	NS	NS																											
Sulfide	E376.1	µg/l																													
Surfactants	E425.1	µg/l	NS	NS																											
Total Organic Carbon	E415.1	µg/l	NS	NS																											

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	MW117S 5 to 20 7/18/07 GEI	MW117S 5 to 20 10/15/07 GEI	MW117S 5 to 20 1/11/08 GEI	MW117S 5 to 20 4/16/08 GEI	MW117S 5 to 20 7/16/08 GEI	MW117S 5 to 20 10/21/08 GEI	MW117S 5 to 20 1/13/09 GEI	MW117S 5 to 20 4/14/09 GEI	MW117S 5 to 20 7/15/09 GEI	MW117S 5 to 20 10/14/09 GEI	MW117S 5 to 20 4/13/10 GEI	MW117S 5 to 20 4/21/11 GEI	MW117S 5 to 20 4/16/12 GEI	MW117S 5 to 20 4/24/13 GEI	MW117S 5 to 20 5/1/14 GEI	MW117S 5 to 20 4/2/15 GEI	MW117S 5 to 20 4/27/16 GEI	MW117S 5 to 20 4/17/17 GEI	MW117S 5 to 20 4/3/18 GEI	MW117S 5 to 20 4/15/19 GEI	MW117S 5 to 20 4/16/20 GEI	MW117S 5 to 20 4/13/21 GEI	MW117S 5 to 20 4/12/22 GEI	MW117S 5 to 20 4/17/23 GEI	MW117S 5 to 20 4/2/24 GEI	MW117S 5 to 20 4/22/25 GEI	MW117S 5 to 20 11/10/25 GEI
Toluene			50000	40000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
1,2,4-Trichlorobenzene			200	50000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
1,1,1-Trichloroethane (TCA)			4000	20000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane			900	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethylene (TCE)			5	5000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane			NS	NS	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<2.0	<2.0	<2.0
1,2,3-Trichloropropane			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
1,2,4-Trimethylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
1,3,5-Trimethylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
Vinyl chloride			2	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m,p-Xylene			3000	5000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene			3000	5000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Xylene			3000	5000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Petroleum Hydrocarbons (TPH)				mg/L	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT											NT	NT
TPH-DRO																															
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																											
Iron			NS	NS																											
Manganese			NS	NS																											
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																											
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																											
Ethane	8015	µg/l	NS	NS																											
Ethylene	8015	µg/l	NS	NS																											
Alkalinity	E310.1	µg/l*	NS	NS																											
Chloride	E325.3	µg/l	NS	NS																											
Chlorine, Total Residual	E330.4	µg/l																													
Iron, Ferrous	3500FE B	µg/l	NS	NS																											
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																											
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																											
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																											
Sodium	6010C	µg/l	NS	NS																											
Sulfate	E375.4	µg/l	NS	NS																											
Sulfide	E376.1	µg/l																													
Surfactants	E425.1	µg/l	NS	NS																											
Total Organic Carbon	E415.1	µg/l	NS	NS																											

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	MW117T 7/19/07 GEI	MW117T 10/11/07 GEI	MW117T 1/15/08 GEI	MW117T 4/16/08 GEI	MW117T 7/16/08 GEI	MW117T 10/21/08 GEI	MW117T 1/13/09 GEI	MW117T 4/14/09 GEI	MW117T 7/15/09 GEI	MW117T 10/16/09 GEI	MW117T 4/13/10 GEI	MW117T 4/21/11 GEI	MW117T 4/16/12 GEI	MW117T 4/23/13 GEI	MW117T 5/1/14 GEI	MW117T 4/2/15 GEI	MW117T 4/27/16 GEI	MW117T 4/17/17 GEI	MW117T 4/3/18 GEI	MW117T 4/15/19 GEI	MW117T 4/16/20 GEI	MW117T 4/13/21 GEI	MW117T 4/12/22 GEI	MW117T 4/17/23 GEI	MW117T 4/2/24 GEI	MW117T 4/22/25 GEI	MW117T 11/10/25 GEI
Sample Location:					MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T
Sample Name:					MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T	MW117T
Well Screen Interval (ft bgs):					35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45	35 to 45
Sample Date:					7/19/07	10/11/07	1/15/08	4/16/08	7/16/08	10/21/08	1/13/09	4/14/09	7/15/09	10/16/09	4/13/10	4/21/11	4/16/12	4/23/13	5/1/14	4/2/15	4/27/16	4/17/17	4/3/18	4/15/19	4/16/20	4/13/21	4/12/22	4/17/23	4/2/24	4/22/25	11/10/25
Collected By:					GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Toluene			50000	40000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
1,2,4-Trichlorobenzene			200	50000	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
1,1,1-Trichloroethane (TCA)			4000	20000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane			900	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethylene (TCE)			5	5000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane			NS	NS	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<2.0	<2.0	<2.0
1,2,3-Trichloropropane			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
1,2,4-Trimethylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
1,3,5-Trimethylbenzene			NS	NS	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0
Vinyl chloride			2	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m,p-Xylene			3000	5000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene			3000	5000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Xylene			3000	5000	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Petroleum Hydrocarbons (TPH)				mg/L	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT										NT	NT
TPH-DRO																																
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																												
Iron			NS	NS																												
Manganese			NS	NS																												
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																												
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																												
Ethane	8015	µg/l	NS	NS																												
Ethylene	8015	µg/l	NS	NS																												
Alkalinity	E310.1	µg/l*	NS	NS																												
Chloride	E325.3	µg/l	NS	NS																												
Chlorine, Total Residual	E330.4	µg/l																														
Iron, Ferrous	3500FE B	µg/l	NS	NS																												
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																												
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																												
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																												
Sodium	6010C	µg/l	NS	NS																												
Sulfate	E375.4	µg/l	NS	NS																												
Sulfide	E376.1	µg/l																														
Surfactants	E425.1	µg/l	NS	NS																												
Total Organic Carbon	E415.1	µg/l	NS	NS																												

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K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571243
Report Date: 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-01
Client ID: 045163-MW117S
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/10/25 10:15
Date Received: 11/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/13/25 23:00
Analyst: EEH
Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND	V-05	ug/l	2.0	--	1
Bromomethane	ND	L-04, V-05	ug/l	2.0	--	1
Vinyl chloride	ND	V-05	ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-01 Date Collected: 11/10/25 10:15

Client ID: 045163-MW117S Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND	V-05	ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-01 Date Collected: 11/10/25 10:15

Client ID: 045163-MW117S Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	104		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571243
Report Date: 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-03
Client ID: 045163-MW117D
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/10/25 10:40
Date Received: 11/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/13/25 23:25
Analyst: EEH
Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND	V-05	ug/l	2.0	--	1
Bromomethane	ND	L-04, V-05	ug/l	2.0	--	1
Vinyl chloride	ND	V-05	ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-03 Date Collected: 11/10/25 10:40

Client ID: 045163-MW117D Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND	V-05	ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-03 Date Collected: 11/10/25 10:40

Client ID: 045163-MW117D Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571243
Report Date: 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-05
Client ID: 045163-MW117T
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/10/25 11:25
Date Received: 11/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 00:16
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND	V-05	ug/l	2.0	--	1
Bromomethane	ND	L-04, V-05	ug/l	2.0	--	1
Vinyl chloride	ND	V-05	ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-05 Date Collected: 11/10/25 11:25

Client ID: 045163-MW117T Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND	V-05	ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-05 Date Collected: 11/10/25 11:25

Client ID: 045163-MW117T Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	104		70-130

Consulting Engineers and Scientists

November 18, 2025
Project 04516-3

Ms. Kimberly Wells
City Clerk
93 Highland Avenue, 1st Floor
Somerville, MA 02143

Dear Ms. Wells:

Re: Groundwater Sampling
Certain "Public Ways", 90 Washington Street, and
Michael E. Capuano Early Childhood Center
Somerville, Massachusetts

Thank you for permitting GEI to conduct groundwater sampling at the Capuano Early Childhood Center, 90 Washington Street, and on certain public ways in Somerville, Massachusetts. Following groundwater sampling, we are providing you with a "Notice of Environmental Sampling Form (BWSC-123)," as required by the Massachusetts Department of Environmental Protection (MassDEP).

Thank you for your continued assistance. Please contact me at 781-721-4012 or igladstone@geiconsultants.com if you have any questions.

Sincerely,

GEI CONSULTANTS, INC.

Ileen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President

Christopher Coner, CHMM
Project Manager

NMT:jam
Enclosure
c: Rubén Carmona, Somerville Public School - Superintendent
Felix Caraballo, Capuano Early Childhood Center - Principal
Jill Lathan, City of Somerville
Amara Anosike, JD, Somerville Public Schools
Catherine Malagrida, UniFirst Corporation
MassDEP-NERO (as part of Status Report)

GEI Consultants, Inc.
100 Quannapowitt Parkway, Suite 300, Wakefield MA 01880
781.721.4000

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: Ms. Kimberly Wells, City Clerk

2. Street Address: 93 Highland Avenue, 1st Floor

City/Town: Somerville, MA Zip Code: 02143

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☐ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☐ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: Capuano Center, 90 Washington Street, Somerville City Streets

City/Town: Somerville, MA Zip Code: 02145

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action
☐ Release Abatement Measure
☐ Utility-related Abatement Measure
☐ Phase I Initial Site Investigation
☐ Phase II Comprehensive Site Assessment
☐ Phase III Feasibility Evaluation
☐ Phase IV Remedy Implementation Plan
☑ Phase V/Remedy Operation Status
☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☐ residential ☐ commercial ☐ industrial ☑ school/playground ☑ Other City Streets (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Semi-Annual Groundwater Sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

December 31, 2025
Project No. 04516-3

Ms. Kimberly Wells
City Clerk
93 Highland Avenue, 1st Floor
Somerville, MA 02143

Re: Groundwater Sampling Results
Certain "Public Ways" and Michael E. Capuano Early Childhood Center
Somerville, Massachusetts
MassDEP RTN 3-23246

Dear Ms. Wells:

On behalf of UniFirst Corporation, GEI Consultants, Inc. is providing results for groundwater samples collected on November 10, November 11, November 12, and November 13, 2025, from groundwater monitoring wells located on municipal property. The sampling was conducted as part of our investigation related to the site at 50 Tufts Street in Somerville, Massachusetts. We:

- Collected groundwater samples from twenty one shallow monitoring wells (GEO-4, GEO-5, GEO-6, MW102, MW103, MW106, MW107, MW108, MW109, MW111R, MW112A, MW115/115R, MW118S, MW119S, MW120S, MW121S, MW122, MW301, MW401S, MW405, MW406), two monitoring wells screened in till (MW118T and MW119T), and six monitoring wells screened in bedrock (MW118D, MW120D, MW121D, MW116, MW401D, MW402) on November 10 through November 13, 2025. We collected a duplicate sample (MW900) from MW116.

Groundwater samples were submitted for chemical testing for volatile organic compounds (VOCs), and one groundwater sample (MW112A) was also tested for manganese and general chemistry compounds including alkalinity, chloride, nitrates, and sulfates. We have attached a summary table of the chemicals detected in the groundwater samples along with the previous sampling results, the laboratory data sheets for the recent sampling, and a figure showing the sampling locations.

Thank you for permitting GEI to conduct groundwater sampling at the Capuano Early Childhood Center, 90 Washington Street, and on certain public ways in Somerville, Massachusetts.

Individuals and public officials may request additional public involvement activities under the Massachusetts Contingency Plan (MCP; 310 CMR 40.1403[10] and 40.1404). The property owner may also request additional documentation, such as that listed at 310 CMR 40.0017(3), associated with the above-referenced samples. We will provide additional documentation within 30 days of our receipt of such a request.

We appreciate your continued cooperation throughout the sampling process. If you have any immediate questions regarding the water testing results, please do not hesitate to contact me at 781.721.4012 or igladstone@geiconsultants.com.

Sincerely,

GEI CONSULTANTS, INC.

Ileen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President

Christopher O. Coner, CHMM
Project Manager

Enclosures

cc: Rubén Carmona, Superintendent
Felix Caraballo, Principal
Catherine Malagrida, UniFirst Corporation
MassDEP-NERO (as part of Status Report)

NMT/DJM:bdp
\\geiconsultants.com\data\Data_Storage\Private\04516\2.0 Correspondence\2.12 Subsurface\2.12.2 Groundwater Evaluation\2025\November 2025 Sampling\City and School\GW Results\Capuano Ctr & City 2025 November GW Results Ltr.docx

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: Ms. Kimberly Wells, City of Somerville Clerk

2. Street Address: 93 Highland Avenue, 1st Floor

City/Town: Somerville, MA Zip Code: 02143

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☑ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☑ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: Capuano Center, 90 Washington Street, Somerville City Streets

City/Town: Somerville, MA Zip Code: 02145

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

- ☐ Immediate Response Action
- ☐ Release Abatement Measure
- ☐ Utility-related Abatement Measure
- ☐ Phase I Initial Site Investigation
- ☐ Phase II Comprehensive Site Assessment
- ☐ Phase III Feasibility Evaluation
- ☐ Phase IV Remedy Implementation Plan
- ☑ Phase V/Remedy Operation Status
- ☐ Post-Temporary Solution Operation, Maintenance and Monitoring
- ☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☐ residential ☐ commercial ☐ industrial ☑ school/playground ☑ Other City Streets (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Semi-Annual Groundwater Sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

					Sample Location:	**GEO-4**	**GEO-4**	**GEO-4**	**GEO-4**	**GEO-4**	**GEO-4**	**GEO-4**	**GEO-4**	**GEO-5**	**GEO-5**	**GEO-5**	**GEO-5**	**GEO-5**	**GEO-5**	**GEO-5**	**GEO-5**	**GEO-6**	**GEO-6**	**GEO-6**	**GEO-6**	**GEO-6**	**GEO6**	**GEO-6**	**GEO-6**	**GEO-6**
					Sample Name:	**GEO-4**	**GEO-4**	**GEO-4**	**GEO-4**	**GEO-4**	**GEO-4**	**GEO-4**	**GEO-4**	**GEO-5**	**GEO-5**	**GEO-5**	**GEO-5**	**GEO-5**	**GEO-5**	**GEO-5**	**GEO-5**	**GEO-6**	**GEO-6**	**GEO-6**	**GEO-6**	**MW900 (FD**	**GEO-6**	**MW901 (FD**	**GEO-6**	**GEO-6**
					Well Screen Interval (ft bgs):	**4 to 19**	**4 to 19**	**4 to 19**	**4 to 19**	**4 to 19**	**4 to 19**	**4 to 19**	**4 to 19**	**5 to 20**	**5 to 20**	**5 to 20**	**5 to 20**	**5 to 20**	**5 to 20**	**5 to 20**	**5 to 20**	**5 to 20**	**5 to 20**	**5 to 20**	**5 to 20**	**5 to 20**	**5 to 20**	**5 to 20**	**5 to 20**	**5 to 20**
					Sample Date:	**8/16/04**	**5/24/06**	**10/4/06**	**1/16/07**	**4/16/07**	**4/4/24**	**3/18/25**	**11/12/25**	**8/16/04**	**5/24/06**	**10/4/06**	**1/16/07**	**4/16/07**	**4/3/24**	**3/18/25**	**11/12/25**	**8/16/04**	**5/24/06**	**10/4/06**	**1/16/07**	**1/16/07**	**4/16/07**	**4/16/07**	**4/3/24**	**3/19/25**
					Collected By:	**GeoInsight**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GeoInsight**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GeoInsight**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**
Analyte	**Method**	**Units**	**Method 1 GW-2 Standard**	**Method 1 GW-3 Standard**																									
Volatile Organic Compounds (VOCs)	8260	µg/l																											
Acetone			50000	50000	< 2000	< 5.0	< 5.0	< 100	< 50	<120	<200	<1000	< 2000	< 5.0	< 5.0	< 250	< 5.0	<5.0	<25	<10	< 200	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<50	<50
Acrylonitrile			NS	NS	< 100	NT	NT	NT	NT	NT	NT	NT	< 100	NT	NT	NT	NT	NT	NT	NT	< 10	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000	< 100	< 0.50	< 0.50	< 10	< 5.0	<12	<20	<100	< 100	< 0.50	< 0.50	< 25	< 0.50	<0.5	<2.5	<2.5	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	<5	<5.0
Bromobenzene			NS	NS	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0	< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20
Bromochloromethane			NS	NS	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0	< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20
Bromodichloromethane			6	50000	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0	< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10
Bromoform			700	50000	< 100	< 1.0	< 1.0	< 20	< 10	<50	<80	<100	< 100	< 1.0	< 1.0	< 50	< 1.0	<2.0	<10	<10	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<20	<20
Bromomethane			7	800	< 200	< 2.0	< 2.0	< 40	< 20	<50	<80	<100	< 200	< 2.0	< 2.0	< 100	< 2.0	<2.0	<10	<10	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	<20	<20
2-Butanone (MEK)			50000	50000	< 1000	< 5.0	< 5.0	< 100	< 50	<120	<200	<1000	< 1000	< 5.0	< 5.0	< 250	< 5.0	<5.0	<25	<25	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<50	<50
n-Butylbenzene			NS	NS	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0	< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20
sec-Butylbenzene			NS	NS	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0	< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20
tert-Butylbenzene			NS	NS	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0	< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20
Carbon disulfide			NS	NS	< 5.0	< 5.0	< 5.0	< 100	< 50	<50	<80	<500	< 5.0	< 5.0	< 5.0	< 250	< 5.0	<2.0	<10	<10	< 5.0	< 5.0	< 5.0	0.81 J	< 5.0	< 10	< 5.0	<20	<20
Carbon tetrachloride			2	5000	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0	< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10
Chlorobenzene			200	1000	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0	< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10
Chloroethane			NS	NS	< 200	< 2.0	< 2.0	< 40	< 20	<50	<80	<200	< 200	< 2.0	< 2.0	< 100	< 2.0	<2.0	<10	<10	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	<20	<20
Chloroform			50	20000	< 100	< 1.0	2.5	< 20	< 10	<25	<40	<200	< 100	< 1.0	0.62 J	< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10
Chloromethane			NS	NS	< 200	< 2.0	< 2.0	< 40	< 20	<50	<80	<200	< 200	< 2.0	< 2.0	< 100	< 2.0	<2.0	<10	<10	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	<20	<20
2-Chlorotoluene			NS	NS	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<200	< 100	< 5.0	< 5.0	< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20
4-Chlorotoluene			NS	NS	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<200	< 100	< 5.0	< 5.0	< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20
1,2-Dibromo-3-chloropropane			NS	NS	< 200	< 5.0	< 5.0	< 100	< 50	<50	<80	<200	< 200	< 5.0	< 5.0	< 250	< 5.0	<2.0	<10	<10	< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20
Dibromochloromethane			20	50000	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<200	< 100	< 1.0	< 1.0	< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10
1,2-Dibromoethane			2	50000	< 100	< 2.0	< 2.0	< 40	< 20	<50	<80	<200	< 100	< 2.0	< 2.0	< 100	< 2.0	<2.0	<10	<10	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	<20	<20
Dibromomethane (Methylene bromide)			NS	NS	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<200	< 100	< 5.0	< 5.0	< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20
1,2-Dichlorobenzene			8000	2000	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0	< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10
1,3-Dichlorobenzene			6000	50000	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0	< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10
1,4-Dichlorobenzene			60	8000	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0	< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10
Dichlorodifluoromethane			NS	NS	< 200	< 2.0	< 2.0	< 40	< 20	<50	<80	<100	< 200	< 2.0	< 2.0	< 100	< 2.0	<2.0	<10	<10	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	<20	<20
1,1-Dichloroethane			2000	20000	< 100	2.7	7.1	< 20	< 10	<25	<40	<100	< 100	3.0	9.7	< 50	< 1.0	<1.0	<5.0	<5.0	< 10	2.0	4.4	1.7	1.6	0.92 J	1.1	<10	<10
1,2-Dichloroethane			5	20000	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0	< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10
1,1-Dichloroethylene			80	30000	< 100	6.1	17.8	< 20	< 10	<25	<40	<100	< 100	8.9	32.7	< 50	< 1.0	<1.0	<5.0	<5.0	< 10	4.6	11.0	4.4	3.2	2.8	3.8	<10	<10
cis-1,2-Dichloroethylene			20	50000	< 100	6.3	16.7	< 20	5.5 J	<25	<40	<100	< 100	12.5	35.2	< 50	< 1.0	<1.0	<5.0	<5.0	14.8	9.1	15.4	7.7	6.9	5.3	6.3	<10	<10
trans-1,2-Dichloroethylene			90	50000	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0	< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10
1,2-Dichloropropane			3	50000	< 100	< 2.0	< 2.0	< 40	< 20	<25	<40	<100	< 100	< 2.0	< 2.0	< 100	< 2.0	<1.0	<5.0	<5.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	<10	<10
1,3-Dichloropropane					< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0	< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20
2,2-Dichloropropane					< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0	< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20
1,1-Dichloropropene					< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0	< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20
cis-1,3-Dichloropropene			10	200	< 100	< 0.50	< 0.50	< 10	< 50	<10	<16	<100	< 100	< 0.50	< 0.50	< 25	< 0.50	<0.4	<2.0	<2.0	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	<4	<4.0
trans-1,3-Dichloropropene			10	200	< 100	< 0.50	< 0.50	< 10	< 50	<10	<16	<100	< 100	< 0.50	< 0.50	< 25	< 0.50	<0.4	<2.0	<2.0	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	<4	<4.0
Diethyl ether (Ethyl ether)					NT	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	NT	< 5.0	< 5.0	< 250	< 5.0	<2.0	<10	<10	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20
Di-Isopropyl ether					NT	< 2.0	< 2.0	< 40	< 20	<50	<80	<100	NT	< 2.0	< 2.0	< 100	< 2.0	<2.0	<10	<10	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	<20	-
1,4-Dioxane			5000	50000	NT	< 25	< 25 R	< 5.0	< 250	<6200	<10000	<10000	NT	< 25	< 25 R	< 1300	< 25	<250	<1200	<1200	NT	< 25	< 25 R	< 25	< 25	< 5.0	< 25	<2500	<2500
Ethylbenzene			20000	5000	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0	< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10
Hexachlorobutadiene			50	3000	< 100	< 5.0	< 5.0	< 100	< 50	<15	<24	<100	< 100	< 5.0	< 5.0	< 250	< 5.0	<0.6	<3.0	<3.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<6	<6.0
2-Hexanone			NS	NS	< 1000	< 5.0	< 5.0	< 100	< 50	<120	<200	<200	< 1000	< 5.0	< 5.0	< 250	< 5.0	<5.0	<25	<25	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<50	<50
Isopropyl benzene			NS	NS	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0	< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20
4-Isopropyltoluene			NS	NS	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0	< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20
Methyl tert-butyl ether			50000	50000	< 100	< 1.0	1.5 J+	< 20	< 10	<50	<80	<100	< 100	1.3	3.3 J+	< 50	< 1.0	<2.0	<10	<10	< 10	1.3	1.9 J+	1.2	1.2	0.80 J	0.81 J	<20	<20
4-Methyl-2-pentanone (MIBK)			50000	50000	< 1000	< 5.0	< 5.0	< 100	< 50	<120	<200	<200	< 1000	< 5.0	< 5.0	< 250	< 5.0	<5.0	<25	<25	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<50	<50
Methylene chloride			2000	50000	< 1000	< 2.0	< 2.0	< 40	< 20	<50	<80	<100	< 1000	< 2.0	< 2.0	< 100	< 2.0	<2.0	<10	<10	< 100	< 2.0	< 2.0	< 2.0	1.3 J	2.5 J	< 2.0	<20	<20
Naphthalene			700	20000	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0	< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20
n-Propylbenzene			NS	NS	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0	< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20
Styrene			100	6000	< 100	< 5.0	< 5.0	< 100	< 50	<25	<40	<100	< 100	< 5.0	< 5.0	< 250	< 5.0	<1.0	<5.0	<5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<10	<10
Tert-amyl methyl ether			NS	NS	NT	< 2.0	< 2.0	< 40	< 20	<50	<80	<100	NT	< 2.0	< 2.0	< 100	< 2.0	<2.0	<10	<10	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	<20	<20
Tert-butyl ethyl ether			NS	NS	NT	< 2.0	< 2.0	< 40	< 20	<50	<80	<100	NT	< 2.0	< 2.0	< 100	< 2.0	<2.0	<10	<10	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	<20	<20
1,1,1,2-Tetrachloroethane			10	50000	< 100	< 5.0	0.84 J	< 100	< 50	<25	<40	<100	< 100	< 5.0	< 5.0	< 250	< 5.0	<1.0	<5.0	<5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<10	<10
1,1,2,2-Tetrachloroethane			9	50000	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0	< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10
Tetrachloroethylene (PCE)			20	30000	12900	6690	24100	16700	8240	3600	6500	8500	14400	2440	12900	254 F+	17.9	100	690	170	782	675	1980	632	594 F+	618	497	1900	1300
Tetrahydrofuran			NS	NS	NT	< 10	< 10	< 200	< 100	<50	<80	<100	NT	< 10	< 10	< 500	< 10	<2.0	<10	<10	NT	< 10	< 10	< 10	< 10	< 20	< 10	<20	<20
Toluene			50000	40000	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0	< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10
1,2,3-Trichlorobenzene			NS	NS	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0	< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20
1,2,4-Trichlorobenzene			200	50000	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0	< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20
1,1,1-Trichloroethane (TCA)			4000	20000	1170	113	321 J+	113	70.9	<25	<40	<100	646	246	652	< 50	< 1.0	<1.0	<5.0	<5.0	27.8	42.5	77.2 J+	33.7	25.3	21.2	26.8	<10	<10
1,1,2-Trichloroethane			900	50000	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0	< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10
Trichloroethylene (TCE)			5	5000	720	86.8	235	129	74.8	26	47	<100	404	146	446	< 50	< 1.0	2.0	10.0	2.8	122	78.8	131	75.3	56.5	55.5	70.5	37	35
Trichlorofluoromethane			NS	NS	< 100	< 1.0	< 1.0	< 20	< 10	<50	<80	<100	< 100	< 1.0	< 1.0	< 50	< 1.0	<2.0	<10	<10	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<20	<20
1,2,3-Trichloropropane			NS	NS	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0	< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20
1,2,4-Trimethylbenzene			NS	NS	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0	< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20
1,3,5-Trimethylbenzene			NS	NS	< 100	< 5.0	< 5.0	< 100	< 50	<50	<80	<100	< 100	< 5.0	< 5.0	< 250	< 5.0	<2.0	<10	<10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	<20	<20
Vinyl chloride			2	50000	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0	< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10
m,p-Xylene			3000	5000	< 200	< 1.0	< 1.0	< 20	< 10	<50	<80	<200	< 200	< 1.0	< 1.0	< 50	< 1.0	<2.0	<10	<10	< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<20	<20
o-Xylene			3000	5000	< 100	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	< 100	< 1.0	< 1.0	< 50	< 1.0	<1.0	<5.0	<5.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10
Total Xylene			3000	5000	ND	< 1.0	< 1.0	< 20	< 10	<25	<40	<100	ND	< 1.0	< 1.0	< 50	< 1.0	<1.0	<5.0	<5.0	ND	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	<10	<10

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	GEO-6	MW-102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW103	MW103	MW103	MW-103	MW103	MW103	MW103	MW103	MW103	MW106	MW106	MW106	MW106	MW106
					Sample Name:	GEO-6	MW-102	MW102	MW-102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW-103	MW103	MW103	MW-103	MW103	MW103	MW103	MW103	MW103	MW106	MW106	MW106	MW106	MW106
					Well Screen Interval (ft bgs):	5 to 20	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	9 to 19	9 to 19	9 to 19	9 to 19	9 to 19
					Sample Date:	11/12/25	5/24/06	10/5/06	1/16/07	4/13/07	7/18/07	10/10/07	1/10/08	4/17/08	4/3/24	4/23/25	11/11/25	5/24/06	8/7/06	10/5/06	1/16/07	1/18/07	4/13/07	4/3/24	4/23/25	11/11/25	1/18/07	4/13/07	7/19/07	10/10/07	1/10/08
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																													
Acetone			50000	50000		<50	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<5.0	<5.0	<10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<5.0	<5.0	<10	< 5.0	< 5.0	NT	< 5.0	< 5.0
Acrylonitrile			NS	NS		NT	NT	NT	NT	NT	NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000		<5.0	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 1.0	< 0.50	< 0.50	<0.5	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	<0.5	<0.50	<0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50
Bromobenzene			NS	NS		<20	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
Bromochloromethane			NS	NS		<20	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
Bromodichloromethane			6	50000		<10	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0
Bromoform			700	50000		<20	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0
Bromomethane			7	800		<20	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 4.0	< 2.0	< 2.0	<2.0	<2.0	<2.0 K-	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0
2-Butanone (MEK)			50000	50000		<50	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<5	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<5	<5.0	<5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
n-Butylbenzene			NS	NS		<20	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
sec-Butylbenzene			NS	NS		<20	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
tert-Butylbenzene			NS	NS		<20	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
Carbon disulfide			NS	NS		<20	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
Carbon tetrachloride			2	5000		<10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000		<10	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0
Chloroethane			NS	NS		<20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			50	20000		<10	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	0.65 J	0.62 J	< 5.0	<1.0	<1.0	<1.0	1.1	1.2	NT	0.56 J	0.39 J
Chloromethane			NS	NS		<20	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 4.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0
2-Chlorotoluene			NS	NS		<20	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
4-Chlorotoluene			NS	NS		<20	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS		<20	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
Dibromochloromethane			20	50000		<10	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0
1,2-Dibromoethane			2	50000		<20	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 4.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS		<20	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
1,2-Dichlorobenzene			8000	2000		<10	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000		<10	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0
1,4-Dichlorobenzene			60	8000		<10	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS		<20	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 4.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0
1,1-Dichloroethane			2000	20000		<10	< 1.0	0.88 J	< 1.0	< 1.0	0.42 J	2.1	4.1	0.51 J	<1.0	<1.0	<1.0	27.2	3.7	13.0	11.5	10.1	7.9	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane			5	20000		<10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000		<10	6.3	50.2	30	< 1.0	23.6	39.7	51.8	22.2 C+	<1.0	<1.0	<1.0	13.4	2.0	6.5	4.3	4.3	8	<1.0	<1.0	<1.0	4.4	6.3	3.4	3.9	4.1
cis-1,2-Dichloroethylene			20	50000		<10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	3.0	2.5	< 1.0	< 1.0	< 5.0	<1.0	<1.0	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethylene			90	50000		<10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane			3	50000		<10	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 4.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	<1.0	<1.0	<1.0	< 2.0	< 2.0	NT	< 2.0	< 2.0
1,3-Dichloropropane						<20	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
2,2-Dichloropropane						<20	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
1,1-Dichloropropene						<20	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
cis-1,3-Dichloropropene			10	200		<4.0	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 1.0	< 0.50	< 0.50	<0.4	<0.4	<0.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	<0.4	<0.4	<0.4	< 0.50	< 0.50	NT	< 0.50	< 0.50
trans-1,3-Dichloropropene			10	200		<4.0	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 1.0	< 0.50	< 0.50	<0.4	<0.40	<0.40	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	<0.4	<0.40	<0.40	< 0.50	< 0.50	NT	< 0.50	< 0.50
Diethyl ether (Ethyl ether)						<20	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<2	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
Di-Isopropyl ether						<10	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 4.0	< 2.0	< 2.0	<2	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	<2	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0
1,4-Dioxane			5000	50000		<1000	< 25	< 25 R	< 25	< 25	NT	< 50	< 25	< 25	<250	<250	<50	< 25	< 25	< 25 R	< 25	< 25	< 130	<250	<250	<50	< 25	< 25	NT	< 25	< 25
Ethylbenzene			20000	5000		<10	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0
Hexachlorobutadiene			50	3000		<6.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<0.6	<0.60	<0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<0.6	<0.60	<0.60	< 5.0	< 5.0	NT	< 5.0	< 5.0
2-Hexanone			NS	NS		<50	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
Isopropyl benzene			NS	NS		<20	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
4-Isopropyltoluene			NS	NS		<20	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000		<20	< 1.0	4.5 J+	2.7	< 1.0	NT	17.3	24.2	1.7 C+	<2.0	<2.0	<2.0	< 1.0	< 1.0	0.65 J J+	< 1.0	< 1.0	< 5.0	<2.0	<2.0	<2.0	12.2	12.1	NT	252	78.0
4-Methyl-2-pentanone (MIBK)			50000	50000		<50	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
Methylene chloride			2000	50000		<20	< 2.0	< 2.0	< 2.0	< 2.0	NT	4.3	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0
Naphthalene			700	20000		<20	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
n-Propylbenzene			NS	NS		<20	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
Styrene			100	6000		<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<1.0	<1.0	<1.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
Tert-amyl methyl ether			NS	NS		<20	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 4.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	2.2
Tert-butyl ethyl ether			NS	NS		<20	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 4.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000		<10	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0 F+	< 5.0	< 25	<1.0	<1.0	<1.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane			9	50000		<10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			20	30000		2500	200	898	692	20.3	524	685	606	438 C+	13	5.5	35	2600	592	1510	1200 F+	1250 F-	1510	43	27	53	1.0 F-	1.2	2.3	1.7	2.3
Tetrahydrofuran			NS	NS		<20	< 10	< 10	< 10	< 10	NT	< 20	< 10	< 10	<2.0	<2.0	<2.0	< 10	< 10	< 10	< 10	< 10	< 50	<2.0	<2.0	<2.0	< 10	< 10	NT	< 10	< 10
Toluene			50000	40000		<10	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS		<20	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
1,2,4-Trichlorobenzene			200	50000		<20	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000		<10	< 1.0	65.7 J+	32.6	< 1.0	26.3	69.8	121	21.9 C+	<1.0	<1.0	<1.0	34.0	4.4	14.4 J+	17.6	21.0	< 5.0	<1.0	<1.0	<1.0	15.3	1.5 J+	6.4	11.3	14.9
1,1,2-Trichloroethane			900	50000		<10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000		58	15.6	89.1	57.0	2.0	46.1	61.0	65.3	35.6 C+	1.3	<1.0	3.3	109	24.0	60.4	37.0	38.0	58.7	3.5	2.3	5.5	3.7	4.8	3.6	4.4	4.9
Trichlorofluoromethane			NS	NS		<20	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0
1,2,3-Trichloropropane			NS	NS		<20	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
1,2,4-Trimethylbenzene			NS	NS		<20	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
1,3,5-Trimethylbenzene			NS	NS		<20	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0
Vinyl chloride			2	50000		<10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m,p-Xylene			3000	5000		<20	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0
o-Xylene			3000	5000		<10	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0
Total Xylene			3000	5000		<10	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Sample Location:					MW106	MW106	MW106	MW106	MW107	MW107	MW107	MW107	MW107	MW107	MW107	MW107	MW107	MW108	MW108	MW108	MW108	MW108	MW108	MW108	MW108	MW108	MW109	MW109	MW109
Sample Name:					MW106	MW106	MW106	MW106	MW107	MW107	MW107	MW107	MW107	MW107	MW107	MW107	MW107	MW108	MW108	MW108	MW108	MW108	MW108	MW108	MW108	MW108	MW109	MW109	MW109
Well Screen Interval (ft bgs):					9 to 19	9 to 19	9 to 19	9 to 19	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 13	2 to 13	3 to 13	3 to 13	3 to 13
Sample Date:					4/17/08	4/3/24	3/19/25	11/12/25	1/18/07	4/13/07	7/18/07	10/10/07	1/10/08	4/17/08	4/2/24	4/22/25	11/12/25	1/18/07	4/16/07	7/18/07	10/10/07	1/10/08	4/17/08	9/15/23	4/2/24	4/22/25	11/12/25	1/18/07	4/16/07	4/17/08
Collected By:					GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Analyte	**Method**	**Units**	**Method 1 GW-2 Standard**	**Method 1 GW-3 Standard**																									
Volatile Organic Compounds (VOCs)	8260	µg/l																											
Acetone			50000	50000	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	69.9	< 5.0	9.2	<5.0	<5.0	<10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0
Acrylonitrile			NS	NS	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT	NT		NT	NT	NT	NT	NT
Benzene			1000	10000	< 0.50	<0.5	<0.50	<0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	<0.5	<0.50	<0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	<0.5	<0.50	<0.50	< 0.50	< 0.50	< 0.50
Bromobenzene			NS	NS	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0
Bromochloromethane			NS	NS	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane			6	50000	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
Bromoform			700	50000	< 1.0	<2.0	<2.0	<2.0	0.75 J	< 1.0	NT	< 1.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0
Bromomethane			7	800	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0
2-Butanone (MEK)			50000	50000	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	7.7	< 5.0	1.1 J	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0
n-Butylbenzene			NS	NS	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene			NS	NS	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene			NS	NS	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			NS	NS	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			2	5000	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 G	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	0.28 J
Chloroethane			NS	NS	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 G	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0
Chloroform			50	20000	1.7	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
Chloromethane			NS	NS	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0
2-Chlorotoluene			NS	NS	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene			NS	NS	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane			20	50000	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane			2	50000	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene			8000	2000	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene			60	8000	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0
1,1-Dichloroethane			2000	20000	< 1.0	<1.0	<1.0	<1.0	4.6	4.3	0.52 J	< 1.0	2.1	3.4	1.1	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	1.2	< 1.0	< 1.0
1,2-Dichloroethane			5	20000	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000	1.5	1.1	1.3	1.6	3.2	3.7	< 1.0	< 1.0	1.3 G	2.3	<1.0	<1.0	2.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethylene			20	50000	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethylene			90	50000	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane			3	50000	< 2.0	<1.0	<1.0	<1.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	< 2.0	< 2.0	< 2.0
1,3-Dichloropropane					< 5.0	<2	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane					< 5.0	<2	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene					< 5.0	<2	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene			10	200	< 0.50	<0.4	<0.40	<0.40	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	<0.4	<0.40	<0.40	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.40	<0.4	<0.40	<0.40	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene			10	200	< 0.50	<0.4	<0.40	<0.40	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	<0.4	<0.40	<0.40	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.40	<0.4	<0.40	<0.40	< 0.50	< 0.50	< 0.50
Diethyl ether (Ethyl ether)					< 5.0	<2	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0
Di-Isopropyl ether					< 2.0	<2	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0
1,4-Dioxane			5000	50000	< 25	<250	<250	<250	< 25	< 25	NT	< 25	< 25	< 25	<250	<250	<50	< 25	< 25	NT	< 25	< 25	< 25	< 250	<250	<250	<50	< 25	< 25	< 25
Ethylbenzene			20000	5000	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000	< 5.0	<0.6	<0.60	<0.60	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<0.6	<0.60	<0.60	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 0.60	<0.6	<0.60	<0.60	< 5.0	< 5.0	< 5.0
2-Hexanone			NS	NS	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			NS	NS	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene			NS	NS	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000	4.9	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	< 1.0	0.21 J	< 1.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 2.0	<2.0	<2.0	<2.0	3.5	< 1.0	< 1.0
4-Methyl-2-pentanone (MIBK)			50000	50000	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0
Methylene chloride			2000	50000	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0
Naphthalene			700	20000	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene			NS	NS	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0
Styrene			100	6000	< 5.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 1.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0
Tert-amyl methyl ether			NS	NS	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000	< 5.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 1.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane			9	50000	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			20	30000	0.44 J	<1.0	<1.0	1	< 1.0 F-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0 F-	< 1.0	< 1.0	0.60 J	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	178 F-	28.5	17.4
Tetrahydrofuran			NS	NS	< 10	<2.0	<2.0	<2.0	< 10	< 10	NT	< 10	< 10	< 10	<2.0	<2.0	<2.0	< 10	< 10	NT	< 10	< 10	< 10	< 2.0	<2.0	<2.0	<2.0	< 10	< 10	< 10
Toluene			50000	40000	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	110	0.40 J	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene			200	50000	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000	2.3	2.4	3.5	4.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	0.77 J	0.97 J	0.31 J
1,1,2-Trichloroethane			900	50000	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000	1.2	1.7	2.3	3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	4.5	< 1.0	0.52 J
Trichlorofluoromethane			NS	NS	< 1.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane			NS	NS	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene			NS	NS	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene			NS	NS	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0
Vinyl chloride			2	50000	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
m,p-Xylene			3000	5000	< 1.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0
o-Xylene			3000	5000	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
Total Xylene			3000	5000	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	MW109 3 to 13 4/2/24 GEI	MW109 3 to 13 3/19/25 GEI	MW109 3 to 13 11/13/25 GEI	MW111 4 to 14 1/18/07 GEI	MW111 4 to 14 4/16/07 GEI	MW111 4 to 14 7/18/07 GEI	MW111 4 to 14 10/10/07 GEI	MW111 4 to 14 1/10/08 GEI	MW111 4 to 14 4/17/08 GEI	MW111R 5 to 15 3/7/25 GEI	MW111R 5 to 15 4/24/25 GEI	MW111R 5 to 15 11/12/25 GEI	MW112A 4 to 19 3/23/07 GEI	MW112A 4 to 19 4/16/07 GEI	MW112A 4 to 19 7/18/07 GEI	MW112A 4 to 19 10/10/07 GEI	MW112A 4 to 19 1/10/08 GEI	MW112A 4 to 19 4/17/08 GEI	MW112A 4 to 19 7/14/08 GEI	MW112A MW900 (FD) 4 to 19 7/14/08 GEI	MW112A 4 to 19 10/22/08 GEI	MW112A MW901 (FD) 4 to 19 10/22/08 GEI	MW112A 4 to 19 1/12/09 GEI	MW112A MW900 (FD) 4 to 19 1/12/09 GEI	MW112A 4 to 19 4/13/09 GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																												
Acetone			50000	50000	<5.0	<5.0	<5.0	< 50	< 130	NT	< 250	< 5.0	< 10	8	6.9	6.9	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Acrylonitrile			NS	NS		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000	<0.5	<0.50	<0.50	< 5.0	< 13	NT	< 25	< 0.50	< 1.0	<0.50	<0.50	<0.50	< 0.50	< 0.50	NT	< 0.50	0.34 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.26 J	0.27 J	0.36 J
Bromobenzene			NS	NS	<2.0	<2.0	<2.0	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromochloromethane			NS	NS	<2.0	<2.0	<2.0	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane			6	50000	<1.0	<1.0	<1.0	< 10	< 25	NT	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			700	50000	<2.0	<2.0	<2.0	< 10	< 25	NT	< 50	< 1.0	< 2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			7	800	<2.0	<2.0	<2.0 K-	< 20	< 50	NT	< 100	< 2.0	< 4.0	<2.0	<2.0 K-	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0
2-Butanone (MEK)			50000	50000	<5.0	<5.0	<5.0	< 50	< 130	NT	< 250	< 5.0	< 10	<5.0	<5.0 K-	<5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Butylbenzene			NS	NS	<2.0	<2.0	<2.0	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene			NS	NS	<2.0	<2.0	<2.0	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene			NS	NS	<2.0	<2.0	<2.0	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			NS	NS	<2.0	<2.0	<2.0	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			2	5000	<1.0	<1.0	<1.0	< 10	< 25	< 1.0	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000	<1.0	<1.0	<1.0	< 10	< 25	NT	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			NS	NS	<2.0	<2.0	<2.0	< 20	< 50	< 2.0	< 100	< 2.0	< 4.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			50	20000	<1.0	<1.0	<1.0	< 10	< 25	NT	< 50	1.2	< 2.0	<1.0	<1.0	<1.0	0.35 J	< 1.0	NT	< 1.0	0.32 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.23 J	0.24 J	< 1.0	
Chloromethane			NS	NS	<2.0	<2.0	<2.0	< 20	< 50	NT	< 100	< 2.0	< 4.0	<2.0	<2.0 K-	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0
2-Chlorotoluene			NS	NS	<2.0	<2.0	<2.0	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene			NS	NS	<2.0	<2.0	<2.0	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS	<2.0	<2.0	<2.0 G	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane			20	50000	<1.0	<1.0	<1.0	< 10	< 25	NT	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane			2	50000	<2.0	<2.0	<2.0	< 20	< 50	NT	< 100	< 2.0	< 4.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS	<2.0	<2.0	<2.0	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene			8000	2000	<1.0	<1.0	<1.0	< 10	< 25	NT	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000	<1.0	<1.0	<1.0	< 10	< 25	NT	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.36 J	0.35 J	< 1.0	
1,4-Dichlorobenzene			60	8000	<1.0	<1.0	<1.0	< 10	< 25	NT	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS	<2.0	<2.0	<2.0	< 20	< 50	NT	< 100	< 2.0	< 4.0	<2.0	<2.0	<2.0	< 2.0 J+	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1-Dichloroethane			2000	20000	<1.0	<1.0	<1.0	30.9	15.7 J	16.8	19.1 J	5.6	4.3 C+	<1.0	<1.0	<1.0	27.6	24.0	6.4	35.6	114	40.9 C+	31.5	31.2	43.7	44.6	70.9	70.7	109	
1,2-Dichloroethane			5	20000	<1.0	<1.0	<1.0	< 10	< 25	0.43 J	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000	<1.0	<1.0	<1.0	17.6	< 25	10.5	< 50	4.1	3.7 C+	<1.0	<1.0	<1.0	19.7	10.8	6.7	19.7	82.4	36.6 C+	24.5	24.5	39.1	39.3	61.7	61.7	89.2	
cis-1,2-Dichloroethylene			20	50000	<1.0	<1.0	<1.0	22.6	17.2 J	56.3	63.9	10.6	4.4 C+	7.0	2.8	2.6	< 1.0	0.54 J	0.98 J	4.2	18.7	55.3 C+	81.5	80.9	214	212	225	224	296	
trans-1,2-Dichloroethylene			90	50000	<1.0	<1.0	<1.0	< 10	< 25	1.5	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	7.9 G
1,2-Dichloropropane			3	50000	<1.0	<1.0	<1.0	< 20	< 50	NT	< 100	< 2.0	< 4.0	<1.0	<1.0	<1.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3-Dichloropropane					<2.0	<2.0	<2.0	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane					<2.0	<2.0	<2.0	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene					<2.0	<2.0	<2.0	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene			10	200	<0.4	<0.40	<0.40	< 50	< 13	NT	< 25	< 0.50	< 1.0	<0.40	<0.40	<0.40	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene			10	200	<0.4	<0.40	<0.40	< 50	< 13	NT	< 25	< 0.50	< 1.0	<0.40	<0.40	<0.40	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl ether (Ethyl ether)					<2.0	<2.0	<2.0	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Di-Isopropyl ether					<2.0	<2.0	<2.0	< 20	< 50	NT	< 100	< 2.0	< 4.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,4-Dioxane			5000	50000	<250	<250	<250 K-	< 250	< 630	NT	< 1300	< 25	< 50	<250	<250	<250	< 25	< 25	NT	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Ethylbenzene			20000	5000	<1.0	<1.0	<1.0	< 10	< 25	NT	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000	<0.6	<0.60	<0.60	< 50	< 130	NT	< 250	< 5.0	< 10	<0.60	<0.60	<0.60	< 5.0 J+	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone			NS	NS	<5.0	<5.0	<5.0	< 50	< 130	NT	< 250	< 5.0	< 10	<5.0	<5.0 K-	<5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			NS	NS	<2.0	<2.0	<2.0	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene			NS	NS	<2.0	<2.0	<2.0	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000	<2.0	<2.0	<2.0	< 10	< 25	NT	< 50	0.45 J	< 2.0	<2.0	<2.0	<2.0	10.8	13.8	NT	20.3	87.0	20.5 C+	14.9	13.5	32.4	32.2	33.3	32.9	29.9	
4-Methyl-2-pentanone (MIBK)			50000	50000	<5.0	<5.0	<5.0	< 50	< 130	NT	< 250	< 5.0	< 10	<5.0	<5.0	<5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride			2000	50000	<2.0	<2.0	<2.0	< 20	31.4 J	NT	< 100	< 2.0	< 4.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			700	20000	<2.0	<2.0	<2.0	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene			NS	NS	<2.0	<2.0	<2.0	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene			100	6000	<1.0	<1.0	<1.0	< 50	< 130	NT	< 250	< 5.0	< 10	<1.0	<1.0	<1.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tert-amyl methyl ether			NS	NS	<2.0	<2.0	<2.0	< 20	< 50	NT	< 100	< 2.0	< 4.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS	<2.0	<2.0	<2.0	< 20	< 50	NT	< 100	< 2.0	< 4.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000	<1.0	<1.0	<1.0	< 50	< 130	NT	< 250	< 5.0	< 10	<1.0	<1.0	<1.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane			9	50000	<1.0	<1.0	<1.0	< 10	< 25	< 1.0	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			20	30000	12	4.8	17 K+	13700 F-	7370	6340	8350	3100	1160 C+	74	39	45	261	198	144	159	359	202 C+	165	164	226	228	287	290	290 G	
Tetrahydrofuran			NS	NS	<2.0	<2.0	<2.0	< 100	< 250	NT	< 500	< 10	< 20	<2.0	4.9 K-	<2.0	< 10	< 10	NT	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Toluene			50000	40000	<1.0	<1.0	<1.0	< 10	< 25	NT	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	0.54 J	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS	<2.0	<2.0	<2.0	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene			200	50000	<2.0	<2.0	<2.0	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000	<1.0	<1.0	<1.0	142	56.5	89.1	84.1	41.3	17.6 C+	<1.0	<1.0	<1.0	1.3	0.96 J	0.68 J	1.4	5.8	1.9 C+	1.3	1.2	5.6	5.7	3.3	3.2	3.9
1,1,2-Trichloroethane			900	50000	<1.0	<1.0	<1.0	< 10	< 25	< 1.0	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000	<1.0	<1.0	1.1	150	84.4	120	125	42.1	19.9 C+	5.3	2.4	3.6	34.0	36.1	26.7	61.3	142	72.8 C+	46.1	44.3	54.9	55.9	88.2	87.9	140	
Trichlorofluoromethane			NS	NS	<2.0	<2.0	<2.0	< 10	< 25	NT	< 50	< 1.0	< 2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane			NS	NS	<2.0	<2.0	<2.0	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene			NS	NS	<2.0	<2.0	<2.0	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene			NS	NS	<2.0	<2.0	<2.0	< 50	< 130	NT	< 250	< 5.0	< 10	<2.0	<2.0	<2.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride			2	50000	<1.0	<1.0	<1.0	< 10	< 25	< 1.0	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	0.84 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.42 J	0.43 J	< 1.0	
m,p-Xylene			3000	5000	<2.0	<2.0	<2.0	< 10	< 25	NT	< 50	< 1.0	< 2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene			3000	5000	<1.0	<1.0	<1.0	< 10	< 25	NT	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylene			3000	5000	<1.0	<1.0	<1.0	< 10	< 25	NT	< 50	< 1.0	< 2.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A
					Sample Name:	MW901 (FD)	MW112A	MW901 (FD)	MW112A	MW900 (FD)	MW112A	MW900 (FD)	MW112A	MW900 (FD)	MW112A	MW900 (FD)	MW112A	MW112A	MW900 (FD)	MW112A	MW112A	MW900 (FD)	MW112A	MW112A	MW112A	MW112A	MW900 (FD)	MW112A	MW112A	MW112A
					Well Screen Interval (ft bgs):	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19
					Sample Date:	4/13/09	7/14/09	7/14/09	10/14/09	10/14/09	4/12/10	4/12/10	10/27/10	4/20/11	4/20/11	11/16/11	4/16/12	4/16/12	11/12/12	4/24/13	4/24/13	11/18/13	6/11/14	11/18/14	4/17/15	4/17/15	4/28/16	11/21/16	4/18/17
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																										
Acetone			50000	50000		< 5.0	< 5.0 F+	< 5.0 F+	< 5.0	< 5.0	< 5.0 J+	< 5.0 J+	< 5.0	< 10	< 10	< 5.0	< 5.0 K-	< 5.0 K-	< 10 K-	< 20	< 20	< 10 K-	< 10 K-	< 10	< 10	< 10	< 10	< 10	<10
Acrylonitrile			NS	NS		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT					
Benzene			1000	10000		0.28 J	< 0.50 F-	< 0.50 F-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.43 J	0.23 J
Bromobenzene			NS	NS		< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0					
Bromochloromethane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0					
Bromodichloromethane			6	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Bromoform			700	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0					
Bromomethane			7	800		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0 G					
2-Butanone (MEK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10 K-	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	<10
n-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0					
sec-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0					
tert-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0					
Carbon disulfide			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0
Carbon tetrachloride			2	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Chlorobenzene			200	1000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Chloroethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0 G	< 2.0	< 2.0	< 2.0	< 2.0	<1.0
Chloroform			50	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Chloromethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0 G	< 2.0	< 2.0	< 2.0	< 2.0	<2.0
2-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0					
4-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0					
1,2-Dibromo-3-chloropropane			NS	NS		< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0					
Dibromochloromethane			20	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0					
1,2-Dibromoethane			2	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 4.0	< 2.0	< 1.0	< 1.0					
Dibromomethane (Methylene bromide)			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0					
1,2-Dichlorobenzene			8000	2000		< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0					
1,3-Dichlorobenzene			6000	50000		< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0					
1,4-Dichlorobenzene			60	8000		< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Dichlorodifluoromethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 4.0	< 2.0	< 2.0 K-	< 2.0					
1,1-Dichloroethane			2000	20000		89.6	99.3	107	137	142	83.8	88.3	85.5	38.1	38.8	39.5	71.5	69.0	48.1	24.2	37.0	73.5	18.3	64.1 G K-	23.2	25.2	14.1	77	34.1
1,2-Dichloroethane			5	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
1,1-Dichloroethylene			80	30000		73.0	91.4	97.7	123	130	74.9	78.6	89.1	57.9	53.0	47.6	86.4	76.2	57.3	30.2	30.0	86.5	38.5	109 K+	39	42.9	21.5	132	47.7
cis-1,2-Dichloroethylene			20	50000		247	311	380	390	373	165	196	214	143	140	169	178	185	150	145	112	209	150	321	71.1	84.1	108	230	78.2
trans-1,2-Dichloroethylene			90	50000		2.5 G	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.9	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	2.9	< 1.0	< 1.0	< 1.0	< 1.0 K+	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
1,2-Dichloropropane			3	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0
1,3-Dichloropropane						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0					
2,2-Dichloropropane						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0					
1,1-Dichloropropene						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0					
cis-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50					
trans-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50					
Diethyl ether (Ethyl ether)						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0					
Di-Isopropyl ether						< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0					
1,4-Dioxane			5000	50000		< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 50	< 50	< 25	< 25	< 25	< 50	< 50	< 50	< 25	< 25	< 25	< 25	< 50	< 50	< 50	<130
Ethylbenzene			20000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Hexachlorobutadiene			50	3000		< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
2-Hexanone			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0 K-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	<5.0
Isopropyl benzene			NS	NS		< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0					
4-Isopropyltoluene			NS	NS		< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0
Methyl tert-butyl ether			50000	50000		23.3	41.4	46.0	77.5	81.4	15.9	20.3	50.3	9.2	9.1	22.3	27.1	26.2	28.8	19.0	14.1	64.6	4.6	47.3 K+	11.9	13.9	3.9	53.9	11.6
4-Methyl-2-pentanone (MIBK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10 F- K-	< 10	< 10	< 5.0	< 5.0	< 5.0					
Methylene chloride			2000	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0
Naphthalene			700	20000		< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0
n-Propylbenzene			NS	NS		< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0					
Styrene			100	6000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0					
Tert-amyl methyl ether			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0
Tert-butyl ethyl ether			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0					
1,1,1,2-Tetrachloroethane			10	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
1,1,2,2-Tetrachloroethane			9	50000		< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 0.50	< 0.50					
Tetrachloroethylene (PCE)			20	30000		384	359	360	393	405	481	477	561	415	409	363	569 R	604	546	339	581	371	266	398	303	300	258	508	435
Tetrahydrofuran			NS	NS		< 10	< 10 F+	< 10 F+	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 10	< 10	< 10	< 20 F- K-	< 20	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10
Toluene			50000	40000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
1,2,3-Trichlorobenzene			NS	NS		< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0					
1,2,4-Trichlorobenzene			200	50000		< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0					
1,1,1-Trichloroethane (TCA)			4000	20000		3.1	3.8	4.0	4.2 J+	4.4 J+	3.4	3.4	4.3	7.5	< 2.0	3.3	5.3	4.8	4.1	4.3	6.5	8.0	1.5	3.6	1.3	1.4	1.7	6.5	4.1
1,1,2-Trichloroethane			900	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Trichloroethylene (TCE)			5	5000		114	137	139	194	198.0	173	179	181	110	108	95.0	171	157	138	87.0	140	146	82.0	117	71	73	61.3	220.0	118.0
Trichlorofluoromethane			NS	NS		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0 G K-					
1,2,3-Trichloropropane			NS	NS		< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0					
1,2,4-Trimethylbenzene			NS	NS		< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0					
1,3,5-Trimethylbenzene			NS	NS		< 5.0	< 5.0 F-	< 5.0 F-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0					
Vinyl chloride			2	50000		< 1.0	1.2	1.3	1.0	1.5	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	4.4	0.90 J	< 1.0	0.77 J G K-	< 1.0	< 1.0	< 1.0	1.3	<1.0
m,p-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
o-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0
Total Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW-115/115R	MW-115/115R	MW-115/115R
					Sample Name:	MW901 (FD)	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW-115/115R	MW-115/115R	MW-115/115R
					Well Screen Interval (ft bgs):	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	10 to 25	10 to 25	10 to 25
					Sample Date:	4/18/2017	11/10/2017	4/4/2018	11/15/2018	4/15/2019	11/22/2019	4/16/2020	11/18/2020	4/13/2021	11/30/2021	4/14/2022	11/29/2022	5/11/2023	11/7/2023	4/2/2024	11/14/2024	4/25/2025	11/13/2025	1/20/25	4/22/25	11/13/25
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																							
Acetone			50000	50000		<10	< 20	<25	<25	<25	<10	<25	<25	<25	<25	<25	<25	<10	< 25	<12	< 20	<10	<10	<5.0	<5.0	<5.0
Acrylonitrile			NS	NS													NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000		0.23 J	< 1.0	<1.3	<1.3	<1.3	<0.50	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1	< 2.5	<1.2	< 2.0	<1.0	<1.0	<0.50	<0.50	<0.50
Bromobenzene			NS	NS													<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
Bromochloromethane			NS	NS													<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
Bromodichloromethane			6	50000		<1.0	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0
Bromoform			700	50000													<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
Bromomethane			7	800													<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0 K-
2-Butanone (MEK)			50000	50000		<10	< 20	<25	<25	<25	<10	<25	<25	<25	<25	<25	<25	<5	< 25	<12	< 20	<10	<10	<5.0	<5.0	<5.0
n-Butylbenzene			NS	NS													<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
sec-Butylbenzene			NS	NS													<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
tert-Butylbenzene			NS	NS													<10	<10	<10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
Carbon disulfide			NS	NS		<2.0	< 4.0	<5.0	<5.0	<5.0	<2.0	<10	<10	<10	<10	<10	<10	<2	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
Carbon tetrachloride			2	5000		<1.0	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<1	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0
Chlorobenzene			200	1000		<1.0	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0
Chloroethane			NS	NS		<1.0	< 2.0	<2.5	<2.5	<2.5	<1.0	<10	<10	<10	<10	<10	<10	<4	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
Chloroform			50	20000		<1.0	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0
Chloromethane			NS	NS		<1.0	< 2.0	<2.5	<2.5	<2.5	<1.0	<10	<10	<10	<10	<10	<10	<4	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
2-Chlorotoluene			NS	NS													<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
4-Chlorotoluene			NS	NS													<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
1,2-Dibromo-3-chloropropane			NS	NS													<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0 G	<2.0	<2.0	<2.0 G
Dibromochloromethane			20	50000													<5	<5	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0
1,2-Dibromoethane			2	50000													<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
Dibromomethane (Methylene bromide)			NS	NS													<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
1,2-Dichlorobenzene			8000	2000													<5	<5	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene			6000	50000													<5	<5	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene			60	8000		<1.0	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane			NS	NS													<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
1,1-Dichloroethane			2000	20000		30.1	88.1	25.3	25.3	38.5	36.9	51	48	40	35	24	35	50	39	28	30	19	27	<1.0	<1.0	<1.0
1,2-Dichloroethane			5	20000		<1.0	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene			80	30000		43.0	92.5	33.0	33.0	57.3	63.1	79	98	58	63	45	67	27	53	46	52	33	47	<1.0	<1.0	<1.0
cis-1,2-Dichloroethylene			20	50000		71.8	155	98.5	98.5	60.6	131.0	72	130	62	120	85	68	100	64	100	93	99	130	<1.0	<1.0	<1.0
trans-1,2-Dichloroethylene			90	50000		<1.0	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0
1,2-Dichloropropane			3	50000		<1.0	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0
1,3-Dichloropropane																	<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
2,2-Dichloropropane																	<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
1,1-Dichloropropene																	<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
cis-1,3-Dichloropropene			10	200													<2	<2	< 2.0	<1.0	< 1.6	<0.80	<0.80	<0.40	<0.40	<0.40
trans-1,3-Dichloropropene			10	200													<2	<2	< 2.0	<1.0	< 1.6	<0.80	<0.80	<0.40	<0.40	<0.40
Diethyl ether (Ethyl ether)																	<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
Di-Isopropyl ether																	<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
1,4-Dioxane			5000	50000		<130	< 250	<310	<310	<310	<130	<1200	<1200	<1200	<1200	<1200	<1200	<500	< 1200	<620	< 1000	<500 K-	<50	<250	<250	<250 K-
Ethylbenzene			20000	5000		<1.0	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0
Hexachlorobutadiene			50	3000													<3	<3	< 3.0	<1.5	< 2.4	<1.2	<1.2	<0.60	<0.60	<0.60
2-Hexanone			NS	NS		<5.0	< 10	<13	<13	<13	<5.0	<25	<25	<25	<25	<25	<25	<10	< 25	<12	< 20	<10	<10	<5.0	<5.0	<5.0
Isopropyl benzene			NS	NS													<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
4-Isopropyltoluene			NS	NS		<2.0	< 4.0	<5.0	<5.0	<5.0	<2.0	<10	<10	<10	<10	<10	<10	<4	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
Methyl tert-butyl ether			50000	50000		11.4	56	19.1	19.1	25.9	21.7	27	30	19	12	5	13	10	15	6	10	<4.0	8.2	<2.0	<2.0	<2.0
4-Methyl-2-pentanone (MIBK)			50000	50000													<25	<25	< 25	<12	< 20	<10	<10	<5.0	<5.0	<5.0
Methylene chloride			2000	50000		<2.0	< 4.0	<5.0	<5.0	<5.0	<2.0	<10	<10	<10	<10	<10	<10	<4	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
Naphthalene			700	20000		<5.0	< 10	<13	<13	<13	<5.0	<10	<10	<10	<10	<10	<10	<4	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
n-Propylbenzene			NS	NS													<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
Styrene			100	6000													<5	<5	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0
Tert-amyl methyl ether			NS	NS		<2.0	< 4.0	<5.0	<5.0	<5.0	<2.0	<10	<10	<10	<10	<10	<10	<4	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
Tert-butyl ethyl ether			NS	NS													<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
1,1,1,2-Tetrachloroethane			10	50000		<1.0	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane			9	50000													<5	<5	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0
Tetrachloroethylene (PCE)			20	30000		404	908	317	317	555	463	750	760	630	460	370	560	300	460	370	420	220	400	<1.0	<1.0	<1.0
Tetrahydrofuran			NS	NS		<10	< 20	<25	<25	<25	<10	<10	<10	<10	<10	<10	<10	<4	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
Toluene			50000	40000		<1.0	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene			NS	NS													<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
1,2,4-Trichlorobenzene			200	50000													<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
1,1,1-Trichloroethane (TCA)			4000	20000		3.6	11.4	3.6	3.6	5.4	5.0	7.5	7.8	7.0	5.1	3.0	<5	4.1	5.4	3.5	< 4.0	2.3	4.2	<1.0	<1.0	<1.0
1,1,2-Trichloroethane			900	50000		<1.0	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0
Trichloroethylene (TCE)			5	5000		107	247	92.3	92.3	136	136	180	190	140	130	95	140	170	110	84	84	56	98	<1.0	<1.0	<1.0
Trichlorofluoromethane			NS	NS													<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
1,2,3-Trichloropropane			NS	NS													<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
1,2,4-Trimethylbenzene			NS	NS													<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
1,3,5-Trimethylbenzene			NS	NS													<10	<10	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
Vinyl chloride			2	50000		<1.0	< 2.0	<2.5	<2.5	<2.5	1.4	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	11	12	28	10	19	<1.0	<1.0	<1.0
m,p-Xylene			3000	5000		<1.0	< 2.0	<2.5	<2.5	<2.5	<1.0	<10	<10	<10	<10	<10	<10	<4	< 10	<5.0	< 8.0	<4.0	<4.0	<2.0	<2.0	<2.0
o-Xylene			3000	5000		<1.0	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0
Total Xylene			3000	5000		<1.0	< 2.0	<2.5	<2.5	<2.5	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<2	< 5.0	<2.5	< 4.0	<2.0	<2.0	<1.0	<1.0	<1.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116
					Sample Name:	MW116	MW116	MW116	MW901 (FD)	MW116	MW901 (FD)	MW116	MW901 (FD)	MW116	MW901 (FD)	MW116	MW901 (FD)	MW116	MW116	MW116	MW116	MW116	MW116	MW901 (FD)	MW116	MW901 (FD)	MW116	MW901 (FD)	MW116	MW901 (FD)
					Well Screen Interval (ft bgs):	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15
					Sample Date:	3/23/07	4/16/07	7/18/07	7/18/07	10/12/07	10/12/07	1/11/08	1/11/08	4/15/08	4/15/08	7/16/08	10/21/08	1/14/09	4/15/09	7/14/09	10/14/09	4/13/10	4/13/10	4/21/11	4/21/11	4/17/12	4/17/12	4/24/13	4/24/13
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																											
Acetone			50000	50000		< 5.0	< 5.0	NT	NT	< 10 J+	< 10 J+	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0	< 10 F+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 20	< 10
Acrylonitrile			NS	NS		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000		0.24 J	< 0.50	NT	NT	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 1.0	< 0.50	< 1.0	< 1.0	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50
Bromobenzene			NS	NS		< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
Bromochloromethane			NS	NS		< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0	< 10	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
Bromodichloromethane			6	50000		< 1.0	< 1.0	NT	NT	1.1 J	0.99 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Bromoform			700	50000		< 1.0	< 1.0	NT	NT	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0 J+	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Bromomethane			7	800		< 2.0	< 2.0	NT	NT	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0 K-
2-Butanone (MEK)			50000	50000		< 5.0	< 5.0	NT	NT	< 10 J+	< 10 J+	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0	< 10	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
n-Butylbenzene			NS	NS		< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
sec-Butylbenzene			NS	NS		< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
tert-Butylbenzene			NS	NS		< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
Carbon disulfide			NS	NS		< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	2.9 J	< 5.0	< 10	< 5.0	< 10	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
Carbon tetrachloride			2	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Chlorobenzene			200	1000		< 1.0	< 1.0	NT	NT	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Chloroethane			NS	NS		< 2.0	< 2.0	2.4	2.3	2.4 J	2.4 J	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0
Chloroform			50	20000		< 1.0	< 1.0	NT	NT	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Chloromethane			NS	NS		< 2.0	< 2.0	NT	NT	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0
2-Chlorotoluene			NS	NS		< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
4-Chlorotoluene			NS	NS		< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS		< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
Dibromochloromethane			20	50000		< 1.0	< 1.0	NT	NT	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1,2-Dibromoethane			2	50000		< 2.0	< 2.0	NT	NT	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS		< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
1,2-Dichlorobenzene			8000	2000		< 1.0	< 1.0	NT	NT	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0 J+	< 2.0 J+	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1,3-Dichlorobenzene			6000	50000		< 1.0	< 1.0	NT	NT	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0 J+	< 2.0 J+	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1,4-Dichlorobenzene			60	8000		< 1.0	< 1.0	NT	NT	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0 J+	< 2.0 J+	< 2.0	< 5.0	< 1.0	1.6	1.0	0.82 J	0.77 J	< 2.0	< 1.0
Dichlorodifluoromethane			NS	NS		< 2.0 J+	< 2.0	NT	NT	< 4.0 J+	< 4.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0 J+	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 10 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0
1,1-Dichloroethane			2000	20000		135	4.4	97.3	96.9	80.1	79.3	18.9	15.6	66.8	64.5	114	109	72.5	101	69.7	92.2	63.9	68.9	27.8	23.4	52.8	51.8	31.5	25.8
1,2-Dichloroethane			5	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	0.23 J	0.20 J	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1,1-Dichloroethylene			80	30000		107	2.7	33.8	34.0	24.8	22.4	14.7	11.8	46.3	45.7	78.4	79.8	56.5	70.6	35.2	68.8	49.1	51.9	22.4	14.1	43.3	42.3	26.7	39.4
cis-1,2-Dichloroethylene			20	50000		103	21.7	415	431	346	341	49.5	42.9	105	102	286	319	146	84.1	92.7	133	80.7	92.1	84.6	68.3	115	112	94.8	144
trans-1,2-Dichloroethylene			90	50000		1.8	< 1.0	4.3	4.4	2.5	2.4	0.88 J	1.3	< 1.0	< 1.0	< 2.0	1.3	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	1.6	1.6	1.8	< 1.0	< 1.0	< 2.0	1.1
1,2-Dichloropropane			3	50000		< 2.0	< 2.0	NT	NT	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0
1,3-Dichloropropane						< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0	< 10	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
2,2-Dichloropropane						< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0	< 10	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
1,1-Dichloropropene						< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0	< 10	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
cis-1,3-Dichloropropene			10	200		< 0.50	< 0.50	NT	NT	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 1.0	< 0.50	< 1.0	< 1.0	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50
trans-1,3-Dichloropropene			10	200		< 0.50	< 0.50	NT	NT	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 1.0	< 0.50	< 1.0	< 1.0	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50
Diethyl ether (Ethyl ether)						< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0	< 10	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
Di-Isopropyl ether						< 2.0	< 2.0	NT	NT	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0
1,4-Dioxane			5000	50000		< 25	< 25	NT	NT	< 50	< 50	< 25	< 25	< 25	< 25	< 50	< 25	< 50	< 25	< 50 F-	< 50	< 130	< 25	< 25	< 25	< 25 K-	< 25 K-	< 100	< 50
Ethylbenzene			20000	5000		< 1.0	< 1.0	NT	NT	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Hexachlorobutadiene			50	3000		< 5.0 J+	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
2-Hexanone			NS	NS		< 5.0	< 5.0	NT	NT	< 10 J+	< 10 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0	< 10	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
Isopropyl benzene			NS	NS		< 5.0	< 5.0	NT	NT	< 10 J+	< 10 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
4-Isopropyltoluene			NS	NS		< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
Methyl tert-butyl ether			50000	50000		12.3	0.40 J	NT	NT	12.5	12.7	2.1 J+	1.3 J+	7.1	6.9	18.2	18.0	9.0	11.7	7.2	8.4	5.4	5.9	4.4	4.4	3.4	3.3	14.1	10.6 K-
4-Methyl-2-pentanone (MIBK)			50000	50000		< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0	< 10	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
Methylene chloride			2000	50000		< 2.0	< 2.0	NT	NT	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0
Naphthalene			700	20000		< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	0.68 J	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
n-Propylbenzene			NS	NS		< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
Styrene			100	6000		< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0	< 10	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
Tert-amyl methyl ether			NS	NS		< 2.0	< 2.0	NT	NT	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0 K-
Tert-butyl ethyl ether			NS	NS		< 2.0	< 2.0	NT	NT	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000		< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0	< 10	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
1,1,2,2-Tetrachloroethane			9	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0 J+	< 2.0 J+	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Tetrachloroethylene (PCE)			20	30000		1180	32.2	167	168	116	110	267	257 J+	603	607	864	839	795	796 G	1020	1010	860	933	323	166	774	778	527	396
Tetrahydrofuran			NS	NS		30.6	13.8	NT	NT	< 20	< 20	< 10	< 10	< 10	< 10	< 20	< 10	< 20	< 10	< 20 F+	< 20	< 50	< 10	< 10	< 10	< 10	< 10	< 20	< 10
Toluene			50000	40000		< 1.0	< 1.0	NT	NT	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS		< 5.0 J+	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
1,2,4-Trichlorobenzene			200	50000		< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000		21.6	0.67 J	10.6	10.7	9.4	9.2	3.3	2.5	10.7	10.7	16.0	15.6	12.8	16.6	8.5	14.3 J+	8.2	10.2	4.2	3.8	8.0	8.3	6.0	3.0
1,1,2-Trichloroethane			900	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Trichloroethylene (TCE)			5	5000		358	19.4	72.7	73.2	136	129	66.3	53.6	175	174	257	269	229	341	196	267	195	212	88.7	57.7	181	182	126	95.4
Trichlorofluoromethane			NS	NS		< 1.0	< 1.0	NT	NT	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1,2,3-Trichloropropane			NS	NS		< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
1,2,4-Trimethylbenzene			NS	NS		< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	0.69 J	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 J+	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	1.0 J	< 5.0
1,3,5-Trimethylbenzene			NS	NS		< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	0.24 J	< 5.0	< 5.0	< 10	< 5.0	< 10	< 5.0 J+	< 10 F-	< 10	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
Vinyl chloride			2	50000		14.1	3.2	185	182	84.9	76.4	3.1	2.3	2.6	2.7	7.2	21.3	13.9	6.3	6.1	6.9	5.7	6.1	13.5	9.0	8.8 K+	8.8 K+	3.8	< 1.0
m,p-Xylene			3000	5000		< 1.0	< 1.0	NT	NT	< 2.0	< 2.0	< 1.0	1.2	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
o-Xylene			3000	5000		< 1.0	< 1.0	NT	NT	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Total Xylene			3000	5000		< 1.0	< 1.0	NT	NT	< 2.0	< 2.0	< 1.0	1.2	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116
					Sample Name:	MW116	MW900 (FD)	MW116	MW900 (FD)	MW116	MW900 (FD)	MW116	MW900 (FD)	MW116	MW900 (FD)	MW116	MW900 (FD)	MW116	MW900 (FD)	MW116	MW900	MW116	MW116	MW900	MW116	MW900	MW116	MW116	MW900
					Well Screen Interval (ft bgs):	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15
					Sample Date:	5/1/14	5/1/14	4/2/15	4/2/15	4/29/16	4/29/16	4/17/17	4/17/17	4/4/18	4/4/18	4/16/19	4/16/19	4/17/20	4/17/20	4/14/21	4/14/21	4/14/22	4/14/22	4/18/23	4/18/23	4/3/24	4/3/24	4/24/25	4/24/25
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																										
Acetone			50000	50000		< 20	< 20	< 20	< 20	< 20	< 10	<10	<10	<10	<10	<10	<10	<25	<25	<12	<12	<5.0	<5.0	<5.0	<5.0	<12	<10	<5.0	<5.0
Acrylonitrile			NS	NS		NT	NT	NT	NT	NT	NT																	NT	NT
Benzene			1000	10000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<2.5	<1.2	<1.2	<0.50	<0.50	<0.50	<0.50	<1.2	<1.0	<0.50	<0.5
Bromobenzene			NS	NS		< 10	< 10	< 10	< 10	< 10	< 5.0															<5.0	<4.0	<2.0	<2.0
Bromochloromethane			NS	NS		< 10	< 10	< 10	< 10	< 10	< 5.0															<5.0	<4.0	<2.0	<2.0
Bromodichloromethane			6	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<2.5	<2.0	<1.0	<1.0
Bromoform			700	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0															<5.0	<4.0	<2.0	<2.0
Bromomethane			7	800		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0 K-															<5.0	<4.0	<2.0	<2.0
2-Butanone (MEK)			50000	50000		< 10	< 10	< 10	< 10	< 10	< 5.0	<10	<10	<10	<10	<10	<10	<25	<25	<25	<25	<5.0	<5.0	<5.0	<5.0	<12	<10	<5.0	<5.0
n-Butylbenzene			NS	NS		< 10	< 10	< 10	< 10	< 10	< 5.0															<5.0	<4.0	<2.0	<2.0
sec-Butylbenzene			NS	NS		< 10	< 10	< 10	< 10	< 10	< 5.0															<5.0	<4.0	<2.0	<2.0
tert-Butylbenzene			NS	NS		< 10	< 10	< 10	< 10	< 10	< 5.0															<5.0	<4.0	<2.0	<2.0
Carbon disulfide			NS	NS		< 10	< 10	< 10	< 10	< 10	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<10	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0	<2.0	<2.0
Carbon tetrachloride			2	5000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<2.5	<2.0	<1.0	<1.0
Chlorobenzene			200	1000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<2.5	<2.0	<1.0	<1.0
Chloroethane			NS	NS		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0	<2.0	<2.0
Chloroform			50	20000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<2.5	<2.0	<1.0	<1.0
Chloromethane			NS	NS		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0	<2.0	<2.0
2-Chlorotoluene			NS	NS		< 10	< 10	< 10	< 10	< 10	< 5.0															<5.0	<4.0	<2.0	<2.0
4-Chlorotoluene			NS	NS		< 10	< 10	< 10	< 10	< 10	< 5.0															<5.0	<4.0	<2.0	<2.0
1,2-Dibromo-3-chloropropane			NS	NS		< 10	< 10	< 10	< 10	< 10	< 5.0															<5.0	<4.0	<2.0	<2.0
Dibromochloromethane			20	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0															<2.5	<2.0	<1.0	<1.0
1,2-Dibromoethane			2	50000		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0															<5.0	<4.0	<2.0	<2.0
Dibromomethane (Methylene bromide)			NS	NS		< 10	< 10	< 10	< 10	< 10	< 5.0															<5.0	<4.0	<2.0	<2.0
1,2-Dichlorobenzene			8000	2000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0															<2.5	<2.0	<1.0	<1.0
1,3-Dichlorobenzene			6000	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0															<2.5	<2.0	<1.0	<1.0
1,4-Dichlorobenzene			60	8000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<2.5	<2.0	<1.0	<1.0
Dichlorodifluoromethane			NS	NS		< 4.0 K-	< 4.0 K-	< 4.0 K-	< 4.0 K-																	<5.0	<4.0	<2.0	<2.0
1,1-Dichloroethane			2000	20000		38.5	41.9	52.0	49.9	38.3	45.0	49.4	49.8	44.1	46.2	22.7	53.9	70	75	39	40	30	29	28	27	21	22	26	25
1,2-Dichloroethane			5	20000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<2.5	<2.0	<1.0	<1.0
1,1-Dichloroethylene			80	30000		46.1	50.3	52.4	50.8	27.7	36.4	35.1	34.4	19.7	20.9	9.4	31.3	30	39	27	27	20	20	23	23	25	26	22	22
cis-1,2-Dichloroethylene			20	50000		107	116	114	111	50.6	59	67.5	67.2	42.6	44.2	27.3	112.0	120	130	110	110	140	130	150	150	56	57	110	110
trans-1,2-Dichloroethylene			90	50000		< 2.0	< 2.0	1.1 J	<2.0	< 2.0	< 1.0	0.42 J	0.45 J	1.1	1.2	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.5	<2.0	<1.0	<1.0
1,2-Dichloropropane			3	50000		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.5	<2.0	<1.0	<1.0
1,3-Dichloropropane						< 10	< 10	< 10	< 10	< 10	< 5.0															<5.0	<4.0	<2.0	<2.0
2,2-Dichloropropane						< 10	< 10	< 10	< 10	< 10	< 5.0															<5.0	<4.0	<2.0	<2.0
1,1-Dichloropropene						< 10	< 10	< 10	< 10	< 10	< 5.0															<5.0	<4.0	<2.0	<2.0
cis-1,3-Dichloropropene			10	200		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50															<1.0	<0.8	<0.4	<0.40
trans-1,3-Dichloropropene			10	200		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50															<1.0	<0.8	<0.40	<0.40
Diethyl ether (Ethyl ether)						< 10	< 10	< 10	< 10	< 10	< 5.0															<5.0	<4.0	<2.0	<2.0
Di-Isopropyl ether						< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0															<5.0	<4.0	<2.0	<2.0
1,4-Dioxane			5000	50000		< 50	< 50	< 50	< 50	< 50	< 50	<130	<130	<130	<130	<130	<130	<1200	<1200	<620	<620	<250	<250	<250	<250	<620	<500	<250	<250
Ethylbenzene			20000	5000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<2.5	<2.0	<1.0	<1.0
Hexachlorobutadiene			50	3000		< 10	< 10	< 10	< 10	< 10	< 5.0															<1.5	<1.2	<0.60	<0.60
2-Hexanone			NS	NS		< 10	< 10	< 10	< 10	< 10	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<25	<12	<12	<5.0	<5.0	<5.0	<5.0	<12	<10	<5.0	<5
Isopropyl benzene			NS	NS		< 10	< 10	< 10	< 10	< 10	< 5.0															<5.0	<4.0	<2.0	<2.0
4-Isopropyltoluene			NS	NS		< 10	< 10	< 10	< 10	< 10	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<10	<10	<10	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0	<2.0	<2.0
Methyl tert-butyl ether			50000	50000		4.4	4.8	5.0	4.9	< 2.0	0.79 J	1.6	1.6	1.1	1.2	<1.0	3.5	<10	<10	<5.0	<5.0	2.3	2.2	2.3	2.2	<5.0	<4.0	<2.0	<2.0
4-Methyl-2-pentanone (MIBK)			50000	50000		< 10	< 10	< 10	< 10																	<12	<10	<5.0	<5.0
Methylene chloride			2000	50000		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<10	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0	<2.0	<2.0
Naphthalene			700	20000		< 10	< 10	< 10	< 10	< 10	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0	<2.0	<2.0
n-Propylbenzene			NS	NS		< 10	< 10	< 10	< 10	< 10	< 5.0															<5.0	<4.0	<2.0	<2.0
Styrene			100	6000		< 10	< 10	< 10	< 10	< 10	< 5.0															<2.5	<2.0	<1.0	<1.0
Tert-amyl methyl ether			NS	NS		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<10	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0	<2.0	<2.0
Tert-butyl ethyl ether			NS	NS		< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0															<5.0	<4.0	<2.0	<2.0
1,1,1,2-Tetrachloroethane			10	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<2.5	<2.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane			9	50000		< 1.0	< 1.0	< 1.0	< 1.0																	<2.5	<2.0	<1.0	<1.0
Tetrachloroethylene (PCE)			20	30000		618	670	726	695	450	436	482	456	233	253	129	404	520	550	340	340	120	120	130	130	310	340	160	150
Tetrahydrofuran			NS	NS		13.3 J	15.7 J	<20	<20	<20	< 10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0	<2.0	<2.0
Toluene			50000	40000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<2.5	<2.0	<1.0	<1.0
1,2,3-Trichlorobenzene			NS	NS		< 10	< 10	< 10	< 10																	<5.0	<4.0	<2.0	<2.0
1,2,4-Trichlorobenzene			200	50000		< 10	< 10	< 10	< 10																	<5.0	<4.0	<2.0	<2.0
1,1,1-Trichloroethane (TCA)			4000	20000		6.7	7.3	8.0	7.6	3.8	4.4	3.8	3.7	1.8	2.0	1.0	2.6	<5.0	<5.0	2.6	2.6	3.2	3.2	2.8	2.8	2.6	2.7	2.6	2.6
1,1,2-Trichloroethane			900	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<2.5	<2.0	<1.0	<1.0
Trichloroethylene (TCE)			5	5000		164	182	188	183	113	139	131	129	83.3	86.3	37	157	200	220	120	120	35	34	53	54	86	90	68	66
Trichlorofluoromethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0																	<5.0	<4.0	<2.0	<2.0
1,2,3-Trichloropropane			NS	NS		< 10	< 10	< 10	< 10																	<5.0	<4.0	<2.0	<2.0
1,2,4-Trimethylbenzene			NS	NS		< 10	< 10	< 10	< 10																	<5.0	<4.0	<2.0	<2.0
1,3,5-Trimethylbenzene			NS	NS		< 10	< 10	< 10	< 10																	<5.0	<4.0	<2.0	<2.0
Vinyl chloride			2	50000		1.8 J	2.2	3.8	3.8	< 2.0	< 1.0	1.6	1.4	<1.0	<1.0	<1.0	20.2	22	29	50	49	130	120	87	86	5	5	61	61
m,p-Xylene			3000	5000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	<4.0	<2.0	<2.0
o-Xylene			3000	5000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<2.5	<2.5	<1.0	<1.0	<1.0	<1.0	<2.5	<2.0	<1.0	<1.0
Total Xylene			3000	5000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<2.5	<2.5	<2.0	<2.0	<2.0	<2.0	<2.5	<2.0	<1.0	<1.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW116	MW116	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D
					Sample Name:	MW116	MW900	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW901 (FD	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D
					Well Screen Interval (ft bgs):	5 to 15	5 to 15	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80
					Sample Date:	11/11/25	11/11/25	7/20/07	8/30/07	10/11/07	1/16/08	4/16/08	7/16/08	10/21/08	1/14/09	4/14/09	7/15/09	10/14/09	10/14/09	4/12/10	4/20/11	4/16/12	11/12/12	4/24/13	11/18/13	5/1/14	11/18/14	4/2/15	11/19/15	4/28/16	11/21/16
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																													
Acetone			50000	50000		<10	<10	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0 K-	< 10	< 10 K-	< 10	< 10	< 10	< 10	< 10	< 10
Acrylonitrile			NS	NS		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
Benzene			1000	10000		<0.50	<0.5	NT	NT	< 0.50	0.24 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene			NS	NS		<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Bromochloromethane			NS	NS		<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Bromodichloromethane			6	50000		<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			700	50000		<2.0	<2.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Bromomethane			7	800		<2.0 K-	<2.0	NT	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 G	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 G	< 2.0 G	< 2.0 G	< 2.0 G	< 2.0 G	
2-Butanone (MEK)			50000	50000		<5.0	<5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 K-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
n-Butylbenzene			NS	NS		<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
sec-Butylbenzene			NS	NS		<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
tert-Butylbenzene			NS	NS		<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Carbon disulfide			NS	NS		<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	1.6 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			2	5000		<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000		<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			NS	NS		<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 G	< 2.0	4.8	3.1	3.1	
Chloroform			50	20000		<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			NS	NS		<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 G	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Chlorotoluene			NS	NS		<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
4-Chlorotoluene			NS	NS		<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
1,2-Dibromo-3-chloropropane			NS	NS		<2.0	<2.0 G	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Dibromochloromethane			20	50000		<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dibromoethane			2	50000		<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Dibromomethane (Methylene bromide)			NS	NS		<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
1,2-Dichlorobenzene			8000	2000		<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichlorobenzene			6000	50000		<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,4-Dichlorobenzene			60	8000		<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS		<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 K-	< 2.0 G K-	< 2.0 G K-					
1,1-Dichloroethane			2000	20000		18	22	20.3	21.4	31.2	31.7	33.3	34.3	22.8	26.0	22.8	28.7	41.2	39.5	40.0	43.5	36.9	41.4	38.5	39.1	40.6	47.9	46.6	39.3	43.9	37.7
1,2-Dichloroethane			5	20000		<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000		13	12	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.55 J	< 1.0	< 1.0	0.79 J K+	0.90 J	1.6	1.8	0.85 J	
cis-1,2-Dichloroethylene			20	50000		57	60	0.55 J	< 1.0	< 1.0	< 1.0	< 1.0	0.96 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.3	1.2	1.6	2.7	5.1	6.5	6.8	6.9	5.6	27.8	8.6	
trans-1,2-Dichloroethylene			90	50000		<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.74 J	0.68 J	< 1.0 K+	0.62 J	2.2	2.9	0.81 J	
1,2-Dichloropropane			3	50000		<1.0	<1.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3-Dichloropropane						<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
2,2-Dichloropropane						<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
1,1-Dichloropropene						<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
cis-1,3-Dichloropropene			10	200		<0.4	<0.40	NT	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
trans-1,3-Dichloropropene			10	200		<0.40	<0.40	NT	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Diethyl ether (Ethyl ether)						<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Di-Isopropyl ether						<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
1,4-Dioxane			5000	50000		<50	<250	NT	NT	< 25	< 25	< 25	< 25	< 25	< 25	< 25 J+	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 50	< 50	< 25	< 25	< 25	< 25	< 25	< 50
Ethylbenzene			20000	5000		<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000		<0.60	<0.60	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone			NS	NS		<5.0	<5	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 K-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
Isopropyl benzene			NS	NS		<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
4-Isopropyltoluene			NS	NS		<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.93 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000		1.6	1.8	NT	NT	< 1.0	0.40 J	< 1.0	0.40 J	< 1.0	< 1.0	0.38 J	0.39 J	0.55 J	0.51 J	< 1.0	0.83 J	< 1.0	0.63 J	< 1.0	0.46 J	< 1.0	1.9 K+	0.69 J	0.89 J	< 1.0	1.3
4-Methyl-2-pentanone (MIBK)			50000	50000		<5.0	<5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 F- K-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0			
Methylene chloride			2000	50000		<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			700	20000		<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	1.1 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene			NS	NS		<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Styrene			100	6000		<1.0	<1.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Tert-amyl methyl ether			NS	NS		<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS		<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
1,1,1,2-Tetrachloroethane			10	50000		<1.0	<1.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane			9	50000		<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50			
Tetrachloroethylene (PCE)			20	30000		130	140	7.0	8.4	8.2	6.1	5.7	7.1	2.1	1.2	< 1.0	2.3	0.93 J	1.1	1.5	4.6	8.4	4.3	5.8	1.3	< 1.0	2.2	5.1	39.7	49.8	6.5
Tetrahydrofuran			NS	NS		<2.0	<2.0	NT	NT	< 10	< 10	< 10	< 10	< 10	< 10	< 10 J+	< 10	< 10	< 10	< 10	< 10	< 10	< 10 F- K-	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene			50000	40000		<1.0	<1.0	NT	NT	< 1.0	0.62 J	< 1.0	0.27 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS		<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	1.6 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
1,2,4-Trichlorobenzene			200	50000		<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
1,1,1-Trichloroethane (TCA)			4000	20000		1.7	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane			900	50000		<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000		40	39	1.2	3.9	1.8	0.94 J	1.0	1.9	< 1.0	1.9	1.5	3.0	6.1	6.3	10.0	11.9	7.4	11.5	7.7	7.3	4.3	6.9	4.6	17.6	14.4	3.3
Trichlorofluoromethane			NS	NS		<2.0	<2.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 G K-	< 1.0 G K-			
1,2,3-Trichloropropane			NS	NS		<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0			
1,2,4-Trimethylbenzene			NS	NS		<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0			
1,3,5-Trimethylbenzene			NS	NS		<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0			
Vinyl chloride			2	50000		16	20	< 1.0	2.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 G K-	< 1.0	1.9	20.2	3.1
m,p-Xylene			3000	5000		<2.0	<2.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene			3000	5000		<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylene			3000	5000		<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118S	MW118S	MW118S	MW118S	MW118S
					Sample Name:	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118S	MW118S	MW118S	MW118S	MW118S
					Well Screen Interval (ft bgs):	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	71 to 80	71 to 80	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14
					Sample Date:	4/17/2017	11/8/2017	4/3/2018	11/15/2018	4/15/2019	11/22/2019	4/16/2020	11/18/2020	4/13/2021	11/30/2021	4/12/2022	11/29/2022	4/17/2023	11/7/2023	4/2/2024	11/14/2024	4/22/2025	11/10/2025	7/20/07	8/30/07	10/11/07	1/11/08	4/16/08
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																									
Acetone			50000	50000		<10	< 10	< 10	< 10	< 10	< 10	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5	<5.0	<5.0	<5.0	<10	NT	NT	< 5.0	< 5.0	< 5.0
Acrylonitrile			NS	NS													NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000		<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NT	NT	< 0.50	< 0.50	< 0.50
Bromobenzene			NS	NS													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0
Bromochloromethane			NS	NS													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0
Bromodichloromethane			6	50000		<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0
Bromoform			700	50000													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 1.0	< 1.0	< 1.0
Bromomethane			7	800													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0
2-Butanone (MEK)			50000	50000		<10	< 10	< 10	< 10	< 10	< 10	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5	<5.0	<5.0	<5.0	<5.0	NT	NT	< 5.0	< 5.0	< 5.0
n-Butylbenzene			NS	NS													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0
sec-Butylbenzene			NS	NS													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0
tert-Butylbenzene			NS	NS													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0
Carbon disulfide			NS	NS		<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			2	5000		<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000		<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0
Chloroethane			NS	NS		1.1	3.4	3.7	1.1	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	9	5.6	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			50	20000		<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0
Chloromethane			NS	NS		<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0 J+
2-Chlorotoluene			NS	NS													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0
4-Chlorotoluene			NS	NS													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0
Dibromochloromethane			20	50000													<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane			2	50000													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene			8000	2000													<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000													<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene			60	8000		<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0 J+
1,1-Dichloroethane			2000	20000		34.8	27.4	21.9	20.0	18.6	33.9	44	27	25	22	30	29	28	26	22	<1.0	12	16	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane			5	20000		<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000		0.78 J	< 1.0	< 1.0	< 1.0	<1.0	2.6	2.4	1.3	< 1.0	< 1.0	< 1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethylene			20	50000		7.9	5	4.3	3.7	3.2	57.3	53	10	5.8	4.7	4.1	3.9	3.4	3.1	2.5	1.3	2.3	2.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethylene			90	50000		0.55 J	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane			3	50000		<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 2.0	< 2.0	< 2.0
1,3-Dichloropropane																	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane																	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene																	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene			10	200													<0.4	<0.4	<0.4	<0.4	<0.4	<0.40	<0.40	NT	NT	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene			10	200													<0.4	<0.4	<0.4	<0.4	<0.4	<0.40	<0.40	NT	NT	< 0.50	< 0.50	< 0.50
Diethyl ether (Ethyl ether)																	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0
Di-Isopropyl ether																	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0
1,4-Dioxane			5000	50000		<130	< 130	< 130	< 130	< 130	< 130	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<50	NT	NT	< 25	< 25	< 25
Ethylbenzene			20000	5000		<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000													<0.6	<0.6	<0.6	<0.6	<0.6	<0.60	<0.60	NT	NT	< 5.0	< 5.0	< 5.0
2-Hexanone			NS	NS		<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5	<5.0	<5.0	<5.0	<5.0	NT	NT	< 5.0	< 5.0	< 5.0
Isopropyl benzene			NS	NS													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene			NS	NS		<2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	2.6	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000		0.81 J	< 1.0	1.1	1.3	1.3	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	1.1	NT	NT	< 1.0	< 1.0	< 1.0
4-Methyl-2-pentanone (MIBK)			50000	50000													<5	<5	<5	<5.0	<5.0	<5.0	<5.0	NT	NT	< 5.0	< 5.0	< 5.0
Methylene chloride			2000	50000		<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0
Naphthalene			700	20000		<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0
n-Propylbenzene			NS	NS													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0
Styrene			100	6000													<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 5.0	< 5.0	< 5.0
Tert-amyl methyl ether			NS	NS		<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 2.0	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000		<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane			9	50000													<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			20	30000		5.8	2.7	2.7	1.8	1.6	40.9	38	27	2.2	1.1	<1.0	1.1	<1	1.5	<1.0	<1.0	<1.0	<1.0	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0
Tetrahydrofuran			NS	NS		<10	< 10	< 10	< 10	< 10	< 10	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 10	< 10	< 10
Toluene			50000	40000		<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene			200	50000													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000		<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane			900	50000		<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000		2.6	1.7	1.5	1.5	1.1	11.4	11	7.9	2.7	1.7	<1.0	1.1	1.1	1.3	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane			NS	NS													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane			NS	NS													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene			NS	NS													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene			NS	NS													<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0	< 5.0	< 5.0
Vinyl chloride			2	50000		0.93 J	2.4	1.9	< 1.0	1.1	11.8	19	3.8	3.3	1.9	<1.0	2.6	2.6	1.3	2.2	<1.0	1.5	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m,p-Xylene			3000	5000		<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	NT	NT	< 1.0	< 1.0	< 1.0
o-Xylene			3000	5000		<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0
Total Xylene			3000	5000		<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0	< 1.0	< 1.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Sample Location:					MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118T	MW118T	MW118T
Sample Name:					MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118T	MW118T	MW118T
Well Screen Interval (ft bgs):					3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5
Sample Date:					7/15/08	10/21/08	1/14/09	4/15/09	7/15/09	10/14/09	4/12/10	4/20/11	4/24/13	5/1/14	4/2/15	4/28/16	4/17/17	4/3/18	4/15/19	4/16/20	4/13/21	4/12/22	4/17/23	4/2/24	4/22/25	11/10/25	7/20/07	8/30/07	10/11/07
Collected By:					GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Analyte	**Method**	**Units**	**Method 1 GW-2 Standard**	**Method 1 GW-3 Standard**																									
Volatile Organic Compounds (VOCs)	8260	µg/l																											
Acetone			50000	50000	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 10	< 10	< 10	< 10	<10	<10	<10	40	<5.0	<5.0	<5.0	<5.0	<5.0	<10	NT	NT	< 5.0
Acrylonitrile			NS	NS	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT									NT	NT	NT	NT	NT
Benzene			1000	10000	< 0.50	< 0.50	< 0.50	< 0.50 J+	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	NT	NT	< 0.50
Bromobenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	NT	< 5.0
Bromochloromethane			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	NT	< 5.0
Bromodichloromethane			6	50000	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0
Bromoform			700	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<2.0	<2.0	<2.0	NT	NT	< 1.0
Bromomethane			7	800	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0	NT	NT	< 2.0
2-Butanone (MEK)			50000	50000	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	NT	< 5.0
n-Butylbenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	NT	< 5.0
sec-Butylbenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	NT	< 5.0
tert-Butylbenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	NT	< 5.0
Carbon disulfide			NS	NS	< 5.0 J+	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0
Carbon tetrachloride			2	5000	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0
Chloroethane			NS	NS	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0
Chloroform			50	20000	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0
Chloromethane			NS	NS	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	NT	< 2.0
2-Chlorotoluene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	NT	< 5.0
4-Chlorotoluene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	NT	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	NT	< 5.0
Dibromochloromethane			20	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0	NT	NT	< 1.0
1,2-Dibromoethane			2	50000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0	NT	NT	< 2.0
Dibromomethane (Methylene bromide)			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	NT	< 5.0
1,2-Dichlorobenzene			8000	2000	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0	NT	NT	< 1.0
1,3-Dichlorobenzene			6000	50000	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0	NT	NT	< 1.0
1,4-Dichlorobenzene			60	8000	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0
Dichlorodifluoromethane			NS	NS	< 2.0 J+	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 K-	< 2.0 K-	< 2.0 K-								<2.0	<2.0	<2.0	NT	NT	< 2.0
1,1-Dichloroethane			2000	20000	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	35.4	34.4	44.2
1,2-Dichloroethane			5	20000	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethylene			20	50000	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.45 J	< 1.0	< 1.0
trans-1,2-Dichloroethylene			90	50000	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane			3	50000	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 2.0
1,3-Dichloropropane					< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	NT	< 5.0
2,2-Dichloropropane					< 5.0 J+	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	NT	< 5.0
1,1-Dichloropropene					< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	NT	< 5.0
cis-1,3-Dichloropropene			10	200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50								<0.4	<0.40	<0.40	NT	NT	< 0.50
trans-1,3-Dichloropropene			10	200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50								<0.4	<0.40	<0.40	NT	NT	< 0.50
Diethyl ether (Ethyl ether)					< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	NT	< 5.0
Di-Isopropyl ether					< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0	NT	NT	< 2.0
1,4-Dioxane			5000	50000	< 25	< 25	< 25	< 25 J+	< 25	< 25	< 25	< 25	< 50	< 25	< 25	< 25	<130	<130	<130	<250	<250	<250	<250	<250	<250	<50	NT	NT	< 25
Ethylbenzene			20000	5000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0
Hexachlorobutadiene			50	3000	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0					<0.6	<0.60	<0.60	NT	NT	< 5.0
2-Hexanone			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	NT	< 5.0
Isopropyl benzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									<2.0	<2.0	<2.0	NT	NT	< 5.0
4-Isopropyltoluene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	21.9	< 5.0	2.9 J	6.0	< 5.0	10.3	<2.0	<2.0	<2.0	3.1	<2.0	<2.0	2.8	11	2.3	NT	NT	< 5.0
Methyl tert-butyl ether			50000	50000	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	NT	2.4
4-Methyl-2-pentanone (MIBK)			50000	50000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<5.0	<5.0	<5.0	NT	NT	< 5.0
Methylene chloride			2000	50000	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	NT	< 2.0
Naphthalene			700	20000	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	NT	< 5.0
n-Propylbenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	NT	< 5.0
Styrene			100	6000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<1.0	<1.0	<1.0	NT	NT	< 5.0
Tert-amyl methyl ether			NS	NS	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	NT	< 2.0
Tert-butyl ethyl ether			NS	NS	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0	NT	NT	< 2.0
1,1,1,2-Tetrachloroethane			10	50000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 5.0
1,1,2,2-Tetrachloroethane			9	50000	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50									<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			20	30000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.29 J	< 1.0	0.38 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.0	3.8	2.2
Tetrahydrofuran			NS	NS	< 10	< 10	< 10	< 10 J+	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	NT	< 10
Toluene			50000	40000	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0
1,2,3-Trichlorobenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	NT	< 5.0
1,2,4-Trichlorobenzene			200	50000	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	NT	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane			900	50000	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane			NS	NS	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<2.0	<2.0	<2.0	NT	NT	< 1.0
1,2,3-Trichloropropane			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	NT	< 5.0
1,2,4-Trimethylbenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	NT	< 5.0
1,3,5-Trimethylbenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	NT	NT	< 5.0
Vinyl chloride			2	50000	< 1.0	< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	2.3	< 1.0
m,p-Xylene			3000	5000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	NT	< 1.0
o-Xylene			3000	5000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0
Total Xylene			3000	5000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	NT	< 1.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T
					Sample Name:	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T
					Well Screen Interval (ft bgs):	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5
					Sample Date:	1/15/08	4/16/08	7/15/08	10/21/08	1/14/09	4/14/09	7/14/09	10/15/09	4/12/10	4/20/11	4/17/12	4/24/13	5/1/14	4/3/15	4/28/16	4/17/17	4/3/18	4/16/19	4/17/20	4/13/21
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																						
Acetone			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 10	< 10	< 10	< 10	<10	<10	<10	<5.0	<5.0
Acrylonitrile			NS	NS		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT					
Benzene			1000	10000		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
Bromochloromethane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
Bromodichloromethane			6	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform			700	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0					
Bromomethane			7	800		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0					
2-Butanone (MEK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<10	<10	<10	<5.0	<5.0
n-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
sec-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
tert-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
Carbon disulfide			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride			2	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene			200	1000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0
Chloroform			50	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane			NS	NS		< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0
2-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
4-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
1,2-Dibromo-3-chloropropane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
Dibromochloromethane			20	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0					
1,2-Dibromoethane			2	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0					
Dibromomethane (Methylene bromide)			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
1,2-Dichlorobenzene			8000	2000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0					
1,3-Dichlorobenzene			6000	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0					
1,4-Dichlorobenzene			60	8000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane			NS	NS		< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 K-	< 2.0 K-						
1,1-Dichloroethane			2000	20000		42.3	42.0	41.9	37.0	33.4	33.6	40.0	53.3 J+	37.8	35.9	28.8	26.9	28.4	31.3	31.3	26.7	22.4	5.8	23	16
1,2-Dichloroethane			5	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene			80	30000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.36 J	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethylene			20	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.45 J	< 1.0	0.55 J	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethylene			90	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane			3	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
2,2-Dichloropropane						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
1,1-Dichloropropene						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
cis-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					
trans-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					
Diethyl ether (Ethyl ether)						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
Di-Isopropyl ether						< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0					
1,4-Dioxane			5000	50000		< 25	< 25 J+	< 25	< 25	< 25	< 25 J+	< 25	< 25	< 25	< 25	< 25	< 50	< 25	< 25	< 25	<130	<130	<130	<250	<250
Ethylbenzene			20000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachlorobutadiene			50	3000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0		
2-Hexanone			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isopropyl benzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
4-Isopropyltoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methyl tert-butyl ether			50000	50000		3.1	2.2	2.5	2.2	2.3	2.0	1.9	7.5	1.2	2.4	1.8	7.1	0.94 J	1.5	1.1	1.9	1.6	<1.0	2.1	<2.0
4-Methyl-2-pentanone (MIBK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
Methylene chloride			2000	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Naphthalene			700	20000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<2.0	<2.0
n-Propylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
Styrene			100	6000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
Tert-amyl methyl ether			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Tert-butyl ethyl ether			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0					
1,1,1,2-Tetrachloroethane			10	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane			9	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50						
Tetrachloroethylene (PCE)			20	30000		2.9	2.7	2.5	2.4	2.1	2.0	1.7	2.8	1.6	2.1	2.1	1.5	1.0	1.3	2.0	0.90 J	<1.0	<1.0	1.4	1.1
Tetrahydrofuran			NS	NS		< 10	< 10 J+	< 10	< 10	< 10	< 10 J+	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	<10	<2.0	<2.0
Toluene			50000	40000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
1,2,4-Trichlorobenzene			200	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
1,1,1-Trichloroethane (TCA)			4000	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane			900	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethylene (TCE)			5	5000		0.31 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.50 J	0.80 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.26 J	0.62 J	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane			NS	NS		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0						
1,2,3-Trichloropropane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
1,2,4-Trimethylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
1,3,5-Trimethylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
Vinyl chloride			2	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 K+	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m,p-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0
o-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW118T	MW118T	MW118T	MW118T	MW118T	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S
					Sample Name:	MW118T	MW118T	MW118T	MW118T	MW118T	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S
					Well Screen Interval (ft bgs):	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20
					Sample Date:	4/12/22	4/17/23	4/2/24	4/22/25	11/10/25	8/22/07	10/12/07	1/15/08	4/16/08	7/15/08	10/22/08	1/13/09	4/13/09	7/15/09	10/15/09	4/13/10	4/22/11	4/16/12	4/23/13	5/1/14	4/2/15	4/28/16	4/18/17	4/3/18
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																										
Acetone			50000	50000		<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0 J+	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	6.4 K-	< 10	< 10	< 10	< 10	<10	<10
Acrylonitrile			NS	NS					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT		
Benzene			1000	10000		<0.50	<0.50	<0.5	<0.50	<0.50	< 0.50 J+	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50
Bromobenzene			NS	NS				<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
Bromochloromethane			NS	NS				<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
Bromodichloromethane			6	50000		<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Bromoform			700	50000				<2.0	<2.0	<2.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
Bromomethane			7	800				<2.0	<2.0	<2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
2-Butanone (MEK)			50000	50000		<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0 J+	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<10	<10
n-Butylbenzene			NS	NS				<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
sec-Butylbenzene			NS	NS				<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
tert-Butylbenzene			NS	NS				<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
Carbon disulfide			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0
Carbon tetrachloride			2	5000		<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Chlorobenzene			200	1000		<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Chloroethane			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0
Chloroform			50	20000		<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Chloromethane			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0
2-Chlorotoluene			NS	NS				<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
4-Chlorotoluene			NS	NS				<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
1,2-Dibromo-3-chloropropane			NS	NS				<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
Dibromochloromethane			20	50000				<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
1,2-Dibromoethane			2	50000				<2.0	<2.0	<2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
Dibromomethane (Methylene bromide)			NS	NS				<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
1,2-Dichlorobenzene			8000	2000				<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
1,3-Dichlorobenzene			6000	50000				<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
1,4-Dichlorobenzene			60	8000		<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Dichlorodifluoromethane			NS	NS				<2.0	<2.0	<2.0	< 2.0 J+	< 2.0 J+	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 K-	< 2.0 K-	< 2.0 K-		
1,1-Dichloroethane			2000	20000		1.5	15	9.6	7.3	7.4	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,2-Dichloroethane			5	20000		<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,1-Dichloroethylene			80	30000		<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
cis-1,2-Dichloroethylene			20	50000		<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
trans-1,2-Dichloroethylene			90	50000		<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,2-Dichloropropane			3	50000		<1.0	<1.0	<1.0	<1.0	<1.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0
1,3-Dichloropropane								<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
2,2-Dichloropropane								<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
1,1-Dichloropropene								<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
cis-1,3-Dichloropropene			10	200				<0.4	<0.40	<0.40	< 0.50 J+	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		
trans-1,3-Dichloropropene			10	200				<0.4	<0.40	<0.40	< 0.50 J+	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		
Diethyl ether (Ethyl ether)								<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
Di-Isopropyl ether								<2.0	<2.0	<2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
1,4-Dioxane			5000	50000		<250	<250	<250	<250	<50	< 25 J+	< 25	< 25	< 25	< 25	< 25	< 25 J+	< 25	< 25	< 25	< 25	< 25	< 50	< 25	< 25	< 25	<130	<130
Ethylbenzene			20000	5000		<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Hexachlorobutadiene			50	3000				<0.6	<0.60	<0.60	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
2-Hexanone			NS	NS		<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0 J+	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0
Isopropyl benzene			NS	NS				<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
4-Isopropyltoluene			NS	NS		<2.0	<2.0	<2.0	2.5	1	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0
Methyl tert-butyl ether			50000	50000		<2.0	<2.0	<2.0	<2.0	<2.0	5.2 J+	2.0	2.1	0.83 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 K-	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)			50000	50000				<5.0	<5.0	<5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
Methylene chloride			2000	50000		<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0
Naphthalene			700	20000		<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0
n-Propylbenzene			NS	NS				<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
Styrene			100	6000				<1.0	<1.0	<1.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
Tert-amyl methyl ether			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0
Tert-butyl ethyl ether			NS	NS				<2.0	<2.0	<2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
1,1,1,2-Tetrachloroethane			10	50000		<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane			9	50000				<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50		
Tetrachloroethylene (PCE)			20	30000		<1.0	1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.5	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Tetrahydrofuran			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	< 10 J+	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10
Toluene			50000	40000		<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,2,3-Trichlorobenzene			NS	NS				<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
1,2,4-Trichlorobenzene			200	50000				<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
1,1,1-Trichloroethane (TCA)			4000	20000		<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
1,1,2-Trichloroethane			900	50000		<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Trichloroethylene (TCE)			5	5000		<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Trichlorofluoromethane			NS	NS				<2.0	<2.0	<2.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
1,2,3-Trichloropropane			NS	NS				<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
1,2,4-Trimethylbenzene			NS	NS				<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
1,3,5-Trimethylbenzene			NS	NS				<2.0	<2.0	<2.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
Vinyl chloride			2	50000		<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
m,p-Xylene			3000	5000		<2.0	<2.0	<2.0	<2.0	<2.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
o-Xylene			3000	5000		<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0
Total Xylene			3000	5000		<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T
					Sample Name:	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T
					Well Screen Interval (ft bgs):	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47
					Sample Date:	4/16/19	4/17/20	4/14/21	4/13/22	4/17/23	4/2/24	4/2/24	4/22/25	11/11/25	8/22/07	10/12/07	1/16/08	4/16/08	7/15/08	10/22/08	1/13/09	4/13/09	7/15/09	10/15/09	4/13/10	4/22/11	4/16/12	4/23/13	5/1/14	4/2/15	4/28/16
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																												
Acetone			50000	50000		<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 K-	< 10	< 10	< 10	< 10
Acrylonitrile			NS	NS								NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000		<0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene			NS	NS							<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromochloromethane			NS	NS							<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane			6	50000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			700	50000							<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			7	800							<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Butanone (MEK)			50000	50000		<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Butylbenzene			NS	NS							<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene			NS	NS							<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene			NS	NS							<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			2	5000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			NS	NS		<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			50	20000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			NS	NS		<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	9.2 J+	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	1.4 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Chlorotoluene			NS	NS							<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene			NS	NS							<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS							<2.0	<2.0	<2.0	<2.0 G	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane			20	50000							<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane			2	50000							<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS							<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene			8000	2000							<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000							<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene			60	8000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS							<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 K-	< 2.0 K-	
1,1-Dichloroethane			2000	20000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	10.4 J+	11.0	10.9	10.4	11.0	5.3	9.0	9.1	7.7	10.8 J+	10.2	9.4	6.4	5.9	5.6	5.9	4.4
1,2-Dichloroethane			5	20000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0 J+	6.4	6.0	6.2	5.8	< 1.0	5.1	5.0	4.6	6.1 J+	5.4	7.0	4.4	4.2	4.1	4.5	3.4
cis-1,2-Dichloroethylene			20	50000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.54 J J+	1.2	1.1	1.2	1.1	< 1.0	0.20 J	1.0	0.66 J	0.94 J J+	< 1.0	< 1.0	0.95 J	0.80 J	< 1.0	0.70 J	0.65 J
trans-1,2-Dichloroethylene			90	50000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane			3	50000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3-Dichloropropane											<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane											<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene											<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene			10	200							<0.4	<0.40	<0.40	<0.40	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene			10	200							<0.4	<0.40	<0.40	<0.40	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl ether (Ethyl ether)											<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Di-Isopropyl ether											<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,4-Dioxane			5000	50000		<130	<250	<250	<250	<250	<250	<250	<250	<50	< 25	< 25	< 25	< 25	< 25	< 25	< 25 J+	< 25	< 25	< 25	< 25	< 25	< 25	< 50	< 25	< 25	< 25
Ethylbenzene			20000	5000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000							<0.6	<0.60	<0.60	<0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone			NS	NS		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			NS	NS							<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000		<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.1 J+	0.66 J	0.64 J	0.50 J	< 1.0	< 1.0	0.47 J	0.37 J	0.34 J	< 1.0	< 1.0	< 1.0	< 1.0	9.1 K-	1.5	0.98 J	< 1.0
4-Methyl-2-pentanone (MIBK)			50000	50000							<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Methylene chloride			2000	50000		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			700	20000		<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene			NS	NS							<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene			100	6000							<1.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tert-amyl methyl ether			NS	NS		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS							<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane			9	50000							<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	
Tetrachloroethylene (PCE)			20	30000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	94.3 J+	105	85.0	86.3	81.2	17.5	78.8	72.2	85.8	72.5	85.4	74.6	75.1	68.5	56.4	54.5	55.7
Tetrahydrofuran			NS	NS		<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene			50000	40000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS							<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
1,2,4-Trichlorobenzene			200	50000							<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
1,1,1-Trichloroethane (TCA)			4000	20000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	0.69 J	0.52 J	2.6	< 1.0	< 1.0	0.46 J	< 1.0	0.54 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0
1,1,2-Trichloroethane			900	50000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	25.9 J+	29.6	26.7	26.8	26.7	6.7	24.9	23.7	26.4	23.0	27.1	23.2	21.0	21.3	16.8	20.2	18.3
Trichlorofluoromethane			NS	NS							<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane			NS	NS							<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene			NS	NS							<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	0.56 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
1,3,5-Trimethylbenzene			NS	NS							<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Vinyl chloride			2	50000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m,p-Xylene			3000	5000		<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene			3000	5000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylene			3000	5000		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	MW119T 42 to 47 4/18/17 GEI	MW119T 42 to 47 4/3/18 GEI	MW119T 42 to 47 4/16/19 GEI	MW119T 42 to 47 4/17/20 GEI	MW119T 42 to 47 4/14/21 GEI	MW119T 42 to 47 4/13/22 GEI	MW119T 42 to 47 4/17/23 GEI	MW119T 42 to 47 4/2/24 GEI	MW119T 42 to 47 4/22/25 GEI	MW119T 42 to 47 11/13/25 GEI	MW120D 28 to 38 8/22/07 GEI	MW120D 28 to 38 10/12/07 GEI	MW120D 28 to 38 1/17/08 GEI	MW1120D 28 to 38 4/16/08 GEI	MW120D 28 to 38 7/15/08 GEI	MW120D 28 to 38 10/22/08 GEI	MW120D 28 to 38 1/13/09 GEI	MW120D 28 to 38 4/14/09 GEI	MW120D 28 to 38 7/15/09 GEI	MW120D 28 to 38 10/15/09 GEI	MW120D 28 to 38 4/13/10 GEI	MW120D 28 to 38 4/22/11 GEI	MW120D 28 to 38 4/16/12 GEI	MW120D 28 to 38 4/23/13 GEI	MW120D 28 to 38 5/1/14 GEI	MW120D 28 to 38 4/3/15 GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																												
Acetone			50000	50000	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 K-	< 10	< 10	< 10
Acrylonitrile			NS	NS										NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromochloromethane			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane			6	50000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			700	50000								<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			7	800								<2.0	<2.0	<2.0 K-	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Butanone (MEK)			50000	50000	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Butylbenzene			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			NS	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			2	5000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			NS	NS	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			50	20000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			NS	NS	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	12.0 J+	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.85 J	< 2.0	< 2.0
2-Chlorotoluene			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane			20	50000								<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane			2	50000								<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene			8000	2000								<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000								<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene			60	8000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS								<2.0	<2.0	<2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 K-	< 2.0 K-
1,1-Dichloroethane			2000	20000	4.9	4.0	1.8	4.3	2.7	1.1	2.6	2.2	2.2	<1.0	23.0 J+	26.0	23.2	30.8	29.5	21.8	21.4	20.9	18.4	31.1 J+	25.1	23.1	17.0	15.8	16.2	16.2
1,2-Dichloroethane			5	20000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000	3.7	2.4	<1.0	3.3	1.9	<1.0	2.6	<1.0	<1.0	<1.0	15.6 J+	18.9	14.3	17.8	22.0	18.4	16.7	16.9	14.1	24.7 J+	19.4	23.8	15.5	14.8	16.7	16.8
cis-1,2-Dichloroethylene			20	50000	0.82 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.70 J J+	< 1.0	1.7	1.9	1.9	1.6	0.70 J	1.6	1.5	1.8 J+	1.7	2.4	1.4	1.1	< 1.0	0.95 J
trans-1,2-Dichloroethylene			90	50000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane			3	50000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3-Dichloropropane												<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane												<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene												<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene			10	200								<0.4	<0.40	<0.40	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene			10	200								<0.4	<0.40	<0.40	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl ether (Ethyl ether)												<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Di-Isopropyl ether												<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,4-Dioxane			5000	50000	<130	<130	<130	<250	<250	<250	<250	<250	<250	<50	< 25	< 25	< 25 J+	< 25	< 25	< 25	< 25	< 25 J+	< 25	< 25	< 25	< 25	< 25	< 50	< 25	< 25
Ethylbenzene			20000	5000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000								<0.6	<0.60	<0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone			NS	NS	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene			NS	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000	0.55 J	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	6.8 J+	3.9	3.2	4.2	3.8	6.6	2.8	2.4	2.0	7.5	2.2	2.2	1.4	7.1 K-	0.78 J	1.1
4-Methyl-2-pentanone (MIBK)			50000	50000								<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride			2000	50000	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			700	20000	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	0.68 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene			100	6000								<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tert-amyl methyl ether			NS	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS								<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<1.0
1,1,2,2-Tetrachloroethane			9	50000								<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50
Tetrachloroethylene (PCE)			20	30000	50.6	33.0	2.6	52.0	32.0	3.1	36	5.2	3.3	1.7	93.5 J+	120	113	131	103	118	84.2	114	99.3	95.0	95.9	75.0	78.5	72.0	66.4	52.9
Tetrahydrofuran			NS	NS	<10	<10	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 J+	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene			50000	40000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene			200	50000								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000	0.25 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	10.3 J+	4.3	3.2	< 1.0	3.9	6.4	2.8	3.7	2.5	3.3	3.5	4.3	2.0	2.6	1.7	2.1
1,1,2-Trichloroethane			900	50000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000	17.6	12.8	2.5	17.0	10.0	1.6	10.0	3.5	3	1.3	32.6 J+	40.1	34.7	43.4	38.7	33.2	30.4	33.8	32.0	33.1	34.8	28.3	26.1	23.6	22.1	21.4
Trichlorofluoromethane			NS	NS								<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene			NS	NS								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride			2	50000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	0.38 J	0.35 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.43 J	< 1.0	< 1.0	1.6	< 1.0	< 1.0	< 1.0	0.89 J
m,p-Xylene			3000	5000	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene			3000	5000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylene			3000	5000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	MW120D 28 to 38 4/28/16 GEI	MW120D 28 to 38 4/18/17 GEI	MW120D 28 to 38 4/4/18 GEI	MW120D 28 to 38 4/16/19 GEI	MW120D 28 to 38 4/17/20 GEI	MW120D 28 to 38 4/14/21 GEI	MW120D 28 to 38 4/13/22 GEI	MW120D 28 to 38 4/18/23 GEI	MW120D 28 to 38 4/3/24 GEI	MW120D 28 to 38 4/3/24 GEI	MW120D 28 to 38 4/22/25 GEI	MW120D 28 to 38 11/11/25 GEI	MW120S 5 to 20 8/22/07 GEI	MW120S 5 to 20 10/12/07 GEI	MW120S 5 to 20 1/15/08 GEI	MW1120S 5 to 20 4/16/08 GEI	MW120S 5 to 20 7/15/08 GEI	MW120S 5 to 20 10/22/08 GEI	MW120S 5 to 20 1/13/09 GEI	MW120S 5 to 20 4/14/09 GEI	MW120S 5 to 20 7/15/09 GEI	MW120S 5 to 20 10/15/09 GEI	MW120S 5 to 20 4/13/10 GEI	MW120S 5 to 20 4/22/11 GEI	MW120S 5 to 20 4/16/12 GEI	MW120S 5 to 20 4/23/13 GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																													
Acetone			50000	50000	< 10	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	4.2 J K-	< 10
Acrylonitrile			NS	NS	NT									NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.50	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene			NS	NS	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromochloromethane			NS	NS	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane			6	50000	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			700	50000	< 1.0								<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			7	800	< 2.0								<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Butanone (MEK)			50000	50000	< 5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Butylbenzene			NS	NS	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene			NS	NS	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene			NS	NS	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			NS	NS	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	0.56 J J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			2	5000	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			NS	NS	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			50	20000	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.9 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			NS	NS	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	10.3 J+	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Chlorotoluene			NS	NS	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene			NS	NS	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane			20	50000	< 1.0								<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane			2	50000	< 2.0								<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene			8000	2000	< 1.0								<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000	< 1.0								<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene			60	8000	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS									<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1-Dichloroethane			2000	20000	11.6	11.4	12.8	3.1	16.0	12.0	3.8	1.7	1.6	1.9	1.9	8.2	1.1 J+	4.3	< 1.0	< 1.0	2.5	< 1.0	< 1.0	< 1.0	0.36 J	< 1.0	< 1.0	< 1.0	0.52 J	< 1.0
1,2-Dichloroethane			5	20000	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000	8.2	9.7	14.1	1.3	14	10	1.6	1.6	1.2	1.3	1.3	8.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethylene			20	50000	0.64 J	0.81 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethylene			90	50000	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane			3	50000	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3-Dichloropropane					< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane					< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene					< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene			10	200	< 0.50								<0.4	<0.40	<0.40	<0.40	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene			10	200	< 0.50								<0.4	<0.40	<0.40	<0.40	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl ether (Ethyl ether)					< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Di-Isopropyl ether					< 2.0								<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,4-Dioxane			5000	50000	< 25	<130	<130	<130	<250	<250	<250	<250	<250	<250	<250	<50	< 25	< 25	< 25	< 25	< 25	< 25	< 25 J+	< 25 J+	< 25	< 25	< 25	< 25	< 25	< 50
Ethylbenzene			20000	5000	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000	< 5.0								<0.6	<0.6	<0.6	<0.6	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone			NS	NS	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			NS	NS	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene			NS	NS	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000	< 1.0	1.1	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 K-
4-Methyl-2-pentanone (MIBK)			50000	50000									<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride			2000	50000	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			700	20000	< 5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene			NS	NS	< 5.0								<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene			100	6000	< 5.0								<1.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tert-amyl methyl ether			NS	NS	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS	< 2.0								<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane			9	50000									<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			20	30000	40.4	35.2	49.9	7.7	59.0	36.0	6.5	5.2	4.7	5	5	31	< 1.0	< 1.0	0.97 J	< 1.0	< 1.0	0.71 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrahydrofuran			NS	NS	< 10	<10	<10	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 J+	< 10	< 10	< 10	< 10	< 10	< 10
Toluene			50000	40000	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene			200	50000									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000	1.1	0.45 J	1.1	<1.0	1.2	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane			900	50000	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000	15.7	13.8	18.6	3.4	21.0	14.0	2.9	2.0	2.0	2.2	2.2	13.0	< 1.0	< 1.0	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane			NS	NS									<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane			NS	NS									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene			NS	NS									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene			NS	NS									<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride			2	50000	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m,p-Xylene			3000	5000	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene			3000	5000	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylene			3000	5000	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	MW120S 5 to 20 5/1/14 GEI	MW120S 5 to 20 4/3/15 GEI	MW120S 5 to 20 4/28/16 GEI	MW120S 5 to 20 4/18/17 GEI	MW120S 5 to 20 4/4/18 GEI	MW120S 5 to 20 4/16/19 GEI	MW120S 5 to 20 4/17/20 GEI	MW120S 5 to 20 4/14/21 GEI	MW120S 5 to 20 4/13/22 GEI	MW120S 5 to 20 4/18/23 GEI	MW120S 5 to 20 4/2/24 GEI	MW120S 5 to 20 4/22/25 GEI	MW120S 5 to 20 11/11/25 GEI	MW121D 32.1 to 47.1 10/22/07 GEI	MW121D 32.1 to 47.1 1/15/08 GEI	MW121D 32.1 to 47.1 4/17/08 GEI	MW121D 32.1 to 47.1 7/14/08 GEI	MW901 32.1 to 47.1 7/14/08 GEI	MW121D 32.1 to 47.1 10/22/08 GEI	MW900 (FD) 32.1 to 47.1 10/22/08 GEI	MW121D 32.1 to 47.1 1/12/09 GEI	MW901 (FD) 32.1 to 47.1 1/12/09 GEI	MW121D 32.1 to 47.1 4/13/09 GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																										
Acetone			50000	50000	< 10	< 10	9.3 J	<10	<10	<10	5.3	<5.0	<5.0	<5.0	<5.0	<5.0	<10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Acrylonitrile			NS	NS	NT	NT											NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene			NS	NS	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromochloromethane			NS	NS	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane			6	50000	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			700	50000	< 1.0	< 1.0	< 1.0								<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			7	800	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0 G	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0
2-Butanone (MEK)			50000	50000	< 5.0	< 5.0	< 5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Butylbenzene			NS	NS	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene			NS	NS	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene			NS	NS	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			NS	NS	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			2	5000	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			NS	NS	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			50	20000	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			NS	NS	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0
2-Chlorotoluene			NS	NS	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene			NS	NS	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane			20	50000	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane			2	50000	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene			8000	2000	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.32 J	0.33 J	< 1.0
1,4-Dichlorobenzene			60	8000	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS	< 2.0 K-	< 2.0 K-	< 2.0 K-								<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1-Dichloroethane			2000	20000	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	46.3	55.3	46.6	37.2	38.1	36.1	34.2	38.2	38.3	37.2
1,2-Dichloroethane			5	20000	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	13.2	< 1.0	16.7	12.8	12.6	12.9 G	8.4 G	14.0	14.2	14.1
cis-1,2-Dichloroethylene			20	50000	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.9	11.8	6.4	21.8	22.6	83.7 G	41.2 G	134	138	80.0
trans-1,2-Dichloroethylene			90	50000	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	0.70 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1
1,2-Dichloropropane			3	50000	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3-Dichloropropane					< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane					< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene					< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene			10	200	< 0.50	< 0.50	< 0.50								<0.4	<0.40	<0.40	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene			10	200	< 0.50	< 0.50	< 0.50								<0.4	<0.40	<0.40	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl ether (Ethyl ether)					< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Di-Isopropyl ether					< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,4-Dioxane			5000	50000	< 25	< 25	< 25	<130	<130	<130	<250	<250	<250	<250	<250	<250	<50	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Ethylbenzene			20000	5000	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000	< 5.0	< 5.0	< 5.0								<0.6	<0.60	<0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone			NS	NS	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			NS	NS	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene			NS	NS	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.0	3.8	2.4	2.1	2.0	5.6	5.6	1.8	1.8	1.7
4-Methyl-2-pentanone (MIBK)			50000	50000	< 5.0	< 5.0	< 5.0								<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride			2000	50000	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			700	20000	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene			NS	NS	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene			100	6000	< 5.0	< 5.0	< 5.0								<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tert-amyl methyl ether			NS	NS	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane			9	50000	< 0.50	< 0.50	< 0.50								<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			20	30000	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	182	258	177	157	154	148 G	97.7 G	112	114	121
Tetrahydrofuran			NS	NS	< 10	< 10	< 10	<10	<10	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene			50000	40000	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.51 J	1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene			200	50000	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	1.3	1.2	1.1	1.0	4.9	4.6	0.87 J	0.86 J	1.0
1,1,2-Trichloroethane			900	50000	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	59.6	136	68.8	71.0	72.0	48.3 G	69.0 G	36.5	36.3	62.3
Trichlorofluoromethane			NS	NS	< 1.0	< 1.0	< 1.0								<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane			NS	NS	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene			NS	NS	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene			NS	NS	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride			2	50000	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.32 J	0.31 J	< 1.0
m,p-Xylene			3000	5000	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene			3000	5000	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylene			3000	5000	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D
					Sample Name:	MW900 (FD)	MW121D	MW900 (FD)	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D
					Well Screen Interval (ft bgs):	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1
					Sample Date:	4/13/09	7/14/09	7/14/09	10/14/09	4/12/10	4/20/11	4/16/12	11/12/12	4/23/13	11/18/13	4/30/14	11/18/14	4/2/15	11/19/15	4/28/16	11/21/16	4/17/17	11/8/17	4/3/18	11/15/18
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																						
Acetone			50000	50000		< 5.0	< 5.0 F+	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0 K-	< 5.0 K-	< 10	< 10 K-	< 10	< 10	< 10	< 10	8.7 J	< 10	< 10	< 10	< 10	< 10
Acrylonitrile			NS	NS		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT						
Benzene			1000	10000		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
Bromochloromethane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
Bromodichloromethane			6	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			700	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0					
Bromomethane			7	800		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 G	< 2.0 G	< 2.0 G	< 2.0 G					
2-Butanone (MEK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 K-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10
n-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
sec-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
tert-Butylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
Carbon disulfide			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0
Carbon tetrachloride			2	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 G	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0
Chloroform			50	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 G	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
4-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
1,2-Dibromo-3-chloropropane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
Dibromochloromethane			20	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0					
1,2-Dibromoethane			2	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0					
Dibromomethane (Methylene bromide)			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
1,2-Dichlorobenzene			8000	2000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0					
1,3-Dichlorobenzene			6000	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0					
1,4-Dichlorobenzene			60	8000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 G K-	< 2.0 G K-							
1,1-Dichloroethane			2000	20000		38.1	37.6	37.9	54.8	52.9	65.8	67.7	49.9	63.4	32.1	45.0	149.0	55.7	35.9	40.2	109.0	32.0	47.6	14.8	14.0
1,2-Dichloroethane			5	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000		14.2	11.0	10.4	21.8	18.0	24.1	25.5	17.6	22.3	12.7	17.6	59.7 K+	23.5	14.5	14.9	35.9	14.8	15.3	7.6	7.0
cis-1,2-Dichloroethylene			20	50000		78.4	105	106	253	279	217	178	122	193	67.2	133	316	186	73.6	108	271	79.9	119	24.8	44.3
trans-1,2-Dichloroethylene			90	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.8	< 1.0	< 1.0	2.9	< 1.0	1.5	0.57 J K+	<1.0	<1.0	<1.0	1.1	0.37 J	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane			3	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
2,2-Dichloropropane						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
1,1-Dichloropropene						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
cis-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					
trans-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					
Diethyl ether (Ethyl ether)						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
Di-Isopropyl ether						< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0					
1,4-Dioxane			5000	50000		< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 50	< 50	< 25 K-	< 25 K-	<25	<25	<25	< 50	< 130	< 130	< 130	< 130
Ethylbenzene			20000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0
2-Hexanone			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 K-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
4-Isopropyltoluene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 1.0	<2.0	<2.0
Methyl tert-butyl ether			50000	50000		1.9	1.4	1.4	< 1.0	0.94 J	2.0	1.7	2.1	8.6 K-	2.7	2.3	7.1 K+	2.1	1.6	0.72 J	1.7	1.4	1.4	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)			50000	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 F- K-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0							
Methylene chloride			2000	50000		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0
Naphthalene			700	20000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
Styrene			100	6000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0					
Tert-amyl methyl ether			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0					
1,1,1,2-Tetrachloroethane			10	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane			9	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50						
Tetrachloroethylene (PCE)			20	30000		118	140	139	115	119	219	356	223	276	124	163	224	216	216	227	139	160	242	78	47.5
Tetrahydrofuran			NS	NS		< 10	< 10 F+	< 10	< 10	< 10	< 10	< 10	< 10 F- K-	< 10	< 10	< 10 G	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene			50000	40000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0							
1,2,4-Trichlorobenzene			200	50000		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0							
1,1,1-Trichloroethane (TCA)			4000	20000		< 1.0	0.95 J	1.0	< 1.0	0.62 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.53 J	0.44 J	1.4	0.56 J	1.1	< 1.0	0.45 J	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane			900	50000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000		70.7	76.3	76.5	146.0	96.3	233.0	342	207	342	115	236	432	266	148	262	176	159	310	39.7	23.5
Trichlorofluoromethane			NS	NS		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 G K-	< 1.0 G K-							
1,2,3-Trichloropropane			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0							
1,2,4-Trimethylbenzene			NS	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0							
1,3,5-Trimethylbenzene			NS	NS		< 5.0	< 5.0 F-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0							
Vinyl chloride			2	50000		< 1.0	0.56 J	0.52 J	< 1.0	< 1.0	7.4	15.2	8.5	10.2	3.4	9.5	38.4 G K-	15	7.5	18.2	23.3	6.6	10.4	<1.0	6.1
m,p-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylene			3000	5000		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	MW121D 32.1 to 47.1 4/15/19 GEI	MW121D 32.1 to 47.1 11/22/19 GEI	MW121D 32.1 to 47.1 4/16/20 GEI	MW121D 32.1 to 47.1 11/18/20 GEI	MW121D 32.1 to 47.1 4/13/21 GEI	MW121D 32.1 to 47.1 11/30/21 GEI	MW121D 32.1 to 47.1 4/13/22 GEI	MW121D 32.1 to 47.1 11/29/22 GEI	MW121D 32.1 to 47.1 4/18/23 GEI	MW121D 32.1 to 47.1 11/7/23 GEI	MW121D 32.1 to 47.1 4/3/24 GEI	MW121D 32.1 to 47.1 11/14/24 GEI	MW121D 32.1 to 47.1 4/23/25 GEI	MW121D 32.1 to 47.1 11/11/25 GEI	MW121S 5 to 20 10/22/07 GEI	MW121S 5 to 20 1/15/08 GEI	MW121S 5 to 20 4/17/08 GEI	MW121S 5 to 20 7/14/08 GEI	MW121S 5 to 20 10/22/08 GEI	MW121S 5 to 20 1/12/09 GEI	MW121S 5 to 20 4/13/09 GEI	MW121S 5 to 20 7/14/09 GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																								
Acetone			50000	50000	< 10	< 10	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5	<5.0	<5.0	<5.0	<10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 F+
Acrylonitrile			NS	NS								NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene			NS	NS								<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromochloromethane			NS	NS								<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane			6	50000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			700	50000								<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			7	800								<2	<2	<2	<2.0	<2.0	<2.0	<2.0 K-	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Butanone (MEK)			50000	50000	< 10	< 10	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Butylbenzene			NS	NS								<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene			NS	NS								<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene			NS	NS								<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			NS	NS	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			2	5000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			200	1000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			NS	NS	< 1.0	< 1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	3.4	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			50	20000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			NS	NS	< 1.0	< 1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Chlorotoluene			NS	NS								<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene			NS	NS								<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane			NS	NS								<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane			20	50000								<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane			2	50000								<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromomethane (Methylene bromide)			NS	NS								<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene			8000	2000								<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			6000	50000								<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.43 J	< 1.0	< 1.0
1,4-Dichlorobenzene			60	8000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NS	NS								<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0
1,1-Dichloroethane			2000	20000	18.8	18.0	16	12	18	18	18	38	24	25	2.1	19	8.4	4.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane			5	20000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethylene			80	30000	7.7	8.7	8.6	8.0	7.5	6.3	2.3	7.3	5.5	5.7	<1.0	4.1	1.4	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethylene			20	50000	73.5	85.4	20	26	37	18	33	11	17	16	2.8	8.4	9	3.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethylene			90	50000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane			3	50000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,3-Dichloropropane												<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane												<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene												<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene			10	200								<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene			10	200								<0.4	<0.4	<0.4	<0.4	<0.4	<0.40	<0.40	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl ether (Ethyl ether)												<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Di-Isopropyl ether												<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,4-Dioxane			5000	50000	< 130	< 130	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<50	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Ethylbenzene			20000	5000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene			50	3000	<2.0	<2.0						<0.6	<0.6	<0.6	<0.6	<0.6	<0.60	<0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone			NS	NS	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			NS	NS								<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Isopropyltoluene			NS	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			50000	50000	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.3	3.3	2.1	<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-pentanone (MIBK)			50000	50000								<5	<5	<5	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride			2000	50000	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			700	20000	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	5.2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene			NS	NS								<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene			100	6000								<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tert-amyl methyl ether			NS	NS	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tert-butyl ethyl ether			NS	NS								<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,1,1,2-Tetrachloroethane			10	50000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane			9	50000								<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			20	30000	48.2	64.8	87	58	72	52	1.9	54	35	35	<1.0	26	1.6	2.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrahydrofuran			NS	NS	< 10	< 10	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 F+
Toluene			50000	40000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS								<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene			200	50000								<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane (TCA)			4000	20000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane			900	50000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			5	5000	31.1	40.0	34	22	40	27	5	32.0	20.0	23	<1.0	14	4.5	4.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane			NS	NS								<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane			NS	NS								<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene			NS	NS								<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene			NS	NS								<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 F-
Vinyl chloride			2	50000	9	4.5	<1.0	2.0	1.5	1.0	31.0	3.0	8.6	3.2	2.0	1.7	2.8	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m,p-Xylene			3000	5000	< 1.0	< 1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2	<2	<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene			3000	5000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylene			3000	5000	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	MW121S 5 to 20 10/14/09 GEI	MW121S 5 to 20 4/12/10 GEI	MW121S 5 to 20 4/20/11 GEI	MW121S 5 to 20 4/16/12 GEI	MW121S 5 to 20 4/23/13 GEI	MW121S 5 to 20 4/30/14 GEI	MW121S 5 to 20 4/2/15 GEI	MW121S 5 to 20 4/28/16 GEI	MW121S 5 to 20 4/17/17 GEI	MW121S 5 to 20 4/3/18 GEI	MW121S 5 to 20 4/15/19 GEI	MW121S 5 to 20 4/16/20 GEI	MW121S 5 to 20 4/13/21 GEI	MW121S 5 to 20 4/13/22 GEI	MW121S 5 to 20 4/13/22 GEI	MW121S 5 to 20 4/3/24 GEI	MW121S 5 to 20 4/23/25 GEI	MW121S 5 to 20 11/11/25 GEI	MW122 4 to 16 1/30/08 GEI	MW122 4 to 16 4/17/08 GEI	MW122 4 to 16 7/14/08 GEI	MW122 4 to 16 10/22/08 GEI	MW122 4 to 16 1/12/09 GEI	MW122 4 to 16 4/13/09 GEI	MW122 4 to 16 7/15/09 GEI	MW122 4 to 16 10/14/09 GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																												
Acetone			50000	50000	< 5.0	< 5.0 J+	< 5.0	8.2 K-	< 10	< 10	< 10	< 10	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	< 5.0 J+	9.6 J	11.1	7.2	5.7	< 5.0	< 5.0 F-	< 10
Acrylonitrile			NS	NS	NT	NT	NT	NT	NT	NT	NT	NT									NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.5	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50	<1.0	< 0.50	< 1.0	0.46 J	< 0.50	< 0.50	< 0.50	0.23 J	< 1.0
Bromobenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<1.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
Bromochloromethane			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<1.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
Bromodichloromethane			6	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	1.1 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
Bromoform			700	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<2.0	<2.0	<1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
Bromomethane			7	800	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0 K-	< 2.0	< 4.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0 F-	< 4.0
2-Butanone (MEK)			50000	50000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0 J+	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
n-Butylbenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
sec-Butylbenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
tert-Butylbenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
Carbon disulfide			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	13.4	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 F-	< 10
Carbon tetrachloride			2	5000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
Chlorobenzene			200	1000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
Chloroethane			NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 F-	< 4.0
Chloroform			50	20000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 2.0	< 1.0	0.61 J	< 1.0	< 1.0	< 1.0	0.75 J
Chloromethane			NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 4.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0 F-	< 4.0
2-Chlorotoluene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
4-Chlorotoluene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
1,2-Dibromo-3-chloropropane			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
Dibromochloromethane			20	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane			2	50000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0
Dibromomethane (Methylene bromide)			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
1,2-Dichlorobenzene			8000	2000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
1,3-Dichlorobenzene			6000	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<1.0	<1.0	<1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	0.60 J	< 1.0	< 2.0
1,4-Dichlorobenzene			60	8000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
Dichlorodifluoromethane			NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0	< 2.0	< 4.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0 F-	< 4.0
1,1-Dichloroethane			2000	20000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	19.3	30.4 C+	10.1	15.0	16.0	25.8	21.2	20.8
1,2-Dichloroethane			5	20000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
1,1-Dichloroethylene			80	30000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.0	9.0 C+	1.4	4.4	3.4	6.1	5.3 F-	6.6
cis-1,2-Dichloroethylene			20	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	60.6	70.7 C+	34.0	62.5	91.5	61.9	39.4	109.0
trans-1,2-Dichloroethylene			90	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.87 J	< 2.0	< 1.0	< 1.0	< 1.0	0.93 J	< 1.0	< 2.0
1,2-Dichloropropane			3	50000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0
1,3-Dichloropropane					< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
2,2-Dichloropropane					< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
1,1-Dichloropropene					< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
cis-1,3-Dichloropropene			10	200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50								<0.4	<0.4	<0.4	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
trans-1,3-Dichloropropene			10	200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50								<0.4	<0.40	<0.40	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
Diethyl ether (Ethyl ether)					< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
Di-Isopropyl ether					< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0
1,4-Dioxane			5000	50000	< 25	< 25	< 25	< 25	< 50	< 25 K-	< 25	< 25	<130	<130	<130	<250	<250	<250	<250	<250	<250	<50	< 25	< 50	< 25	< 25	< 25	< 25	< 25	< 50
Ethylbenzene			20000	5000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
Hexachlorobutadiene			50	3000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0					<0.6	<0.60	<0.60	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
2-Hexanone			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0 J+	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
Isopropyl benzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
4-Isopropyltoluene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
Methyl tert-butyl ether			50000	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 K-	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.3	3.9 C+	1.9	5.6	2.5	3.2	3.3	2.9
4-Methyl-2-pentanone (MIBK)			50000	50000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<5.0	<5.0	<5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
Methylene chloride			2000	50000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0
Naphthalene			700	20000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 10	2.6 J	< 5.0	< 5.0	< 5.0	< 5.0	< 10
n-Propylbenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
Styrene			100	6000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<1.0	<1.0	<1.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
Tert-amyl methyl ether			NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0
Tert-butyl ethyl ether			NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0								<2.0	<2.0	<2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0
1,1,1,2-Tetrachloroethane			10	50000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
1,1,2,2-Tetrachloroethane			9	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50								<1.0	<1.0	<1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
Tetrachloroethylene (PCE)			20	30000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	477	691 C+	122	352 G	312	499 G	677	518
Tetrahydrofuran			NS	NS	< 10	< 10	< 10	< 10	< 10	< 10 G	< 10	< 10	<10	<10	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 10	< 20	< 10	< 10	< 10	< 10	< 10	< 20
Toluene			50000	40000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	6.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.48 J	< 2.0	2.8	3.7	0.64 J	2.4	1.6	< 4.0
1,2,3-Trichlorobenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
1,2,4-Trichlorobenzene			200	50000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
1,1,1-Trichloroethane (TCA)			4000	20000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	3.4 C+	0.63 J	5.1	1.1	1.7	1.7	< 2.0
1,1,2-Trichloroethane			900	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
Trichloroethylene (TCE)			5	5000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	177	106 C+	27.0	56.9	59.6	91.7	90.2	81.1
Trichlorofluoromethane			NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0								<2.0	<2.0	<2.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 F-	< 2.0
1,2,3-Trichloropropane			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
1,2,4-Trimethylbenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
1,3,5-Trimethylbenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								<2.0	<2.0	<2.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
Vinyl chloride			2	50000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.32 J	< 2.0	< 1.0	< 1.0	1.2	< 1.0	< 1.0 F-	4.3
m,p-Xylene			3000	5000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 1.0	< 2.0	0.92 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
o-Xylene			3000	5000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 2.0	0.67 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
Total Xylene			3000	5000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 2.0	1.6 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122
					Sample Name:	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122
					Well Screen Interval (ft bgs):	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16
					Sample Date:	4/12/10	10/27/10	4/20/11	11/16/11	4/17/12	11/12/12	4/23/13	11/18/13	4/30/14	11/18/14	4/2/15	11/19/15	4/28/16	11/21/16	4/17/2017	11/8/2017	4/3/2018	11/15/2018	4/16/2019	11/22/2019	4/16/2020	11/18/2020	4/13/2021	11/30/2021	4/13/2022
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																										
Acetone			50000	50000		3.8 J+	< 5.0	17.8	< 5.0	< 5.0	< 25 K-	< 50	< 50 K-	< 20	< 20	< 20	< 10	9.4 J	< 40	< 50	< 10	<50	<50	<20	<50	<50	<50	<25	<100	<100
Acrylonitrile			NS	NS		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT														
Benzene			1000	10000		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 2.5	< 2.5	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 2.0	< 2.5	< 0.50	<2.5	<2.5	<1.0	<2.5	<5.0	<5.0	<2.5	<10	<10
Bromobenzene			NS	NS		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10														
Bromochloromethane			NS	NS		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10														
Bromodichloromethane			6	50000		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20
Bromoform			700	50000		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0														
Bromomethane			7	800		< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0 G	< 4.0 G														
2-Butanone (MEK)			50000	50000		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25 K-	< 25	< 25	< 10	< 10	< 10	17.3 J	< 10	< 40	< 50	< 10	<50	<50	<20	<50	<50	<50	<50	<100	<100
n-Butylbenzene			NS	NS		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10														
sec-Butylbenzene			NS	NS		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10														
tert-Butylbenzene			NS	NS		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10														
Carbon disulfide			NS	NS		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 5.0	< 20	< 10	< 2.0	<10	<10	<4.0	<10	<20	<20	<5	<40	<40
Carbon tetrachloride			2	5000		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<5	<20	<20
Chlorobenzene			200	1000		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20
Chloroethane			NS	NS		< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0 G	< 4.0	< 4.0	< 2.0	< 8.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<20	<20	<10	<40	<40
Chloroform			50	20000		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<10	<20	<20
Chloromethane			NS	NS		< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0 G	< 4.0	< 4.0	< 2.0	< 8.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<20	<20	<10	<40	<40
2-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10												
4-Chlorotoluene			NS	NS		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10												
1,2-Dibromo-3-chloropropane			NS	NS		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10												
Dibromochloromethane			20	50000		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0												
1,2-Dibromoethane			2	50000		< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0												
Dibromomethane (Methylene bromide)			NS	NS		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10												
1,2-Dichlorobenzene			8000	2000		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0												
1,3-Dichlorobenzene			6000	50000		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0												
1,4-Dichlorobenzene			60	8000		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<5	<20	<20
Dichlorodifluoromethane			NS	NS		< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0 G K-	< 4.0 G K-														
1,1-Dichloroethane			2000	20000		29.6	20.3	19.1	15.2	17.2	14.4	11.1	12.7	15.9	12.8	15.0	6.8	18.3	20.5	30.9	14.8	22.7	17.0	18.8	16.4	29	48	44	46	35
1,2-Dichloroethane			5	20000		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20
1,1-Dichloroethylene			80	30000		7.3	4.6	8.3	4.1	6.4	4.7 J	4.1 J	4.4 J	5.1	3.8 K+	4.5	1.6 J	5.8	5.6	7.7	3.9	8.1	7.3	6.1	6.9	<10	12	6.9	<20	<20
cis-1,2-Dichloroethylene			20	50000		58.6	117	45.5	66.4	61.5	84.7	56.2	67.2	68.0	69.3	43.8	75.7	61.3	68.5	67.2	50	64.4	71.0	69.1	95.8	150	150	110	130	130
trans-1,2-Dichloroethylene			90	50000		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0 K+	< 2.0	< 2.0	< 1.0	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<10	<20	<20
1,2-Dichloropropane			3	50000		< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0	< 8.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<10	<20	<20
1,3-Dichloropropane						< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10													
2,2-Dichloropropane						< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10													
1,1-Dichloropropene						< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10													
cis-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 2.5	< 2.5	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0													
trans-1,3-Dichloropropene			10	200		< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 2.5	< 2.5	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0													
Diethyl ether (Ethyl ether)						< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10													
Di-Isopropyl ether						< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0													
1,4-Dioxane			5000	50000		< 25	< 25	< 50	< 25	< 25 K-	< 130	< 260	< 260	< 50 K-	< 50 K-	< 50	< 50	< 50	< 200	< 630	< 130	<630	<630	<250	<630	<2500	<2500	<1200	<5000	<5000
Ethylbenzene			20000	5000		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20
Hexachlorobutadiene			50	3000		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 20	<10										
2-Hexanone			NS	NS		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25 K-	< 10	< 10	< 10	< 10	< 10	< 40	< 25	< 5.0	<25	<25	<2.0	<25	<50	<50	<25	<100	<100
Isopropyl benzene			NS	NS		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10													
4-Isopropyltoluene			NS	NS		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 2.0	<10	<10	<4.0	<10	<20	<20	<20	<40	<40
Methyl tert-butyl ether			50000	50000		2.3	2.7	2.9	2.1	2.7	2.2 J	< 5.0 K-	< 5.0	1.5 J	2.6 K+	1.8	1.0 J	1.2	< 4.0	3.7	1.1	<5.0	<5.0	2.1	<5.0	<20	<20	<10	<40	<40
4-Methyl-2-pentanone (MIBK)			50000	50000		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25 F- K-	< 25	< 25	< 10	< 10	< 10														
Methylene chloride			2000	50000		< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	1.1 J	< 2.0	39.4	< 10	< 2.0	<10	<10	<4.0	<10	<20	<20	<20	<40	<40
Naphthalene			700	20000		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 5.0	< 20	< 25	< 5.0	<25	<25	<10	<25	<20	<20	<10	<40	<40
n-Propylbenzene			NS	NS		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10													
Styrene			100	6000		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10													
Tert-amyl methyl ether			NS	NS		< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0	< 8.0	< 10	< 2.0	<10	<10	<4.0	<10	<20	<20	<10	<40	<40
Tert-butyl ethyl ether			NS	NS		< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0													
1,1,1,2-Tetrachloroethane			10	50000		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	<2.0	<2.0	< 1.0	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<10	<20	<20
1,1,2,2-Tetrachloroethane			9	50000		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0														
Tetrachloroethylene (PCE)			20	30000		856	532	656	581	1000	811	938	726	592	499	784	326	734	684	910	579	959	1150	1060	961	1200	1400	820	1600	1700
Tetrahydrofuran			NS	NS		< 10	< 10	< 20	< 10	< 10	< 50 F- K-	< 50	< 50	< 20 G	< 20	< 20	< 20	< 10	< 40	< 50	< 10	<50	<50	<2.0	<50	<20	<20	<10	<40	<40
Toluene			50000	40000		6.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	6	< 2.0	0.79 J	0.72	< 2.0	< 1.0	< 4.0	< 5.0	20.7	<5.0	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20
1,2,3-Trichlorobenzene			NS	NS		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10														
1,2,4-Trichlorobenzene			200	50000		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10														
1,1,1-Trichloroethane (TCA)			4000	20000		1.5	< 1.0	7.5	1.4	2.2	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	2.0	< 2.0	0.92 J	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20
1,1,2-Trichloroethane			900	50000		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<10	<20	<20
Trichloroethylene (TCE)			5	5000		119.0	82.1	73.1	79.0	103	88.0	93.4	76.0	98.9	58.9	82.9	44.9	98.3	87.1	102.0	63.3	110.0	122	121	131	140	170	130	220	210
Trichlorofluoromethane			NS	NS		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0 G K-	< 2.0 G K-														
1,2,3-Trichloropropane			NS	NS		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10														
1,2,4-Trimethylbenzene			NS	NS		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10														
1,3,5-Trimethylbenzene			NS	NS		< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10														
Vinyl chloride			2	50000		< 1.0	3.6	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0 K-	1.8	1.2	0.73 J	< 4.0	< 5.0	1.3	<5.0	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20
m,p-Xylene			3000	5000		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<20	<20	<10	<40	<40
o-Xylene			3000	5000		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20
Total Xylene			3000	5000		< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 4.0	< 5.0	< 1.0	<5.0	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	MW122 4 to 16 11/29/2022 GEI	MW122 4 to 16 4/17/2023 GEI	MW122 4 to 16 11/7/2023 GEI	MW122 4 to 16 4/4/2024 GEI	MW122 4 to 16 11/14/2024 GEI	MW122 4 to 16 4/24/2025 GEI	MW122 4 to 16 11/12/2025 GEI	MW-301 5-15 1/20/25 GEI	MW-301 5-15 4/23/25 GEI	MW-301 5-15 11/11/25 GEI	MW401D 34-44 11/13/25 GEI	MW401S 4 to 16 11/13/2025 GEI	MW402 20-30 11/11/25 GEI	MW405 8-18 11/10/25 GEI	MW406 4-14 11/10/25 GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																	
Acetone			50000	50000	<50	<50	<5.0	<10	< 50	<50	<50	<5.0	<5.0	<10	<1000	<50	<10	<10	14
Acrylonitrile			NS	NS	NT	NT	NT			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000	<5	<5	<0.50	<1	< 5	<5.0	<5.0	<0.50	<0.5	<0.5	<100	<5.0	<0.5	<0.5	<0.5
Bromobenzene			NS	NS	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	<2.0
Bromochloromethane			NS	NS	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	<2.0
Bromodichloromethane			6	50000	<10	<10	<1.0	<2.0	< 10	<10	<10	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	<1.0
Bromoform			700	50000	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	<2.0
Bromomethane			7	800	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0 G	<2.0 G	<200 K-	<20 K-	<2.0 G	<2.0 G	<2.0 G
2-Butanone (MEK)			50000	50000	<50	<50	<5.0	<10	< 50	<50	<50	<5.0	<5.0	<5.0	<1000	<50	<5.0	<5.0	<5.0
n-Butylbenzene			NS	NS	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	<2.0
sec-Butylbenzene			NS	NS	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	<2.0
tert-Butylbenzene			NS	NS	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	<2.0
Carbon disulfide			NS	NS	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<500	<20	<2.0	<2.0	<2.0
Carbon tetrachloride			2	5000	<10	<10	<1.0	<2.0	< 10	<10	<10	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	<1.0
Chlorobenzene			200	1000	<10	<10	<1.0	<2.0	< 10	<10	<10	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	<1.0
Chloroethane			NS	NS	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<200	<20	<2.0	<2.0	<2.0
Chloroform			50	20000	<10	<10	<1.0	<2.0	< 10	<10	<10	<1.0	<1.0	<1.0	<200	<10	<1.0	<1.0	<1.0
Chloromethane			NS	NS	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<200	<20	<2.0	<2.0	<2.0
2-Chlorotoluene			NS	NS	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<200	<20	<2.0	<2.0	<2.0
4-Chlorotoluene			NS	NS	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<200	<20	<2.0	<2.0	<2.0
1,2-Dibromo-3-chloropropane			NS	NS	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0 G	<200 G	<20 G	<2.0 G	<2.0	<2.0
Dibromochloromethane			20	50000	<10	<10	<1.0	<2.0	< 10	<10	<10	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	<1.0
1,2-Dibromoethane			2	50000	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<50	<20	<2.0	<2.0	<2.0
Dibromomethane (Methylene bromide)			NS	NS	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	<2.0
1,2-Dichlorobenzene			8000	2000	<10	<10	<1.0	<2.0	< 10	<10	<10	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	<1.0
1,3-Dichlorobenzene			6000	50000	<10	<10	<1.0	<2.0	< 10	<10	<10	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	<1.0
1,4-Dichlorobenzene			60	8000	<10	<10	<1.0	<2.0	< 10	<10	<10	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	<1.0
Dichlorodifluoromethane			NS	NS	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<200	<20	<2.0	<2.0	<2.0
1,1-Dichloroethane			2000	20000	24	18	16	3.1	12	<10	<10	<1.0	<1.0	<1.0	500	7.8	5.6	<1.0	<1.0
1,2-Dichloroethane			5	20000	<10	<10	<1.0	<2.0	< 10	<10	<10	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	<1.0
1,1-Dichloroethylene			80	30000	<10	<10	7.7	<2.0	< 10	<10	<10	<1.0	<1.0	<1.0	<100	<10	3.2	<1.0	<1.0
cis-1,2-Dichloroethylene			20	50000	180	110	130	22	140	76	410	<1.0	<1.0	<1.0	400	14	<1.0	<1.0	<1.0
trans-1,2-Dichloroethylene			90	50000	<10	<10	<1.0	<2.0	< 10	<10	<10	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	<1.0
1,2-Dichloropropane			3	50000	<10	<10	<1.0	<2.0	< 10	<10	<10	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	<1.0
1,3-Dichloropropane					<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<50	<20	<2.0	<2.0	<2.0
2,2-Dichloropropane					<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	<2.0
1,1-Dichloropropene					<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<50	<20	<2.0	<2.0	<2.0
cis-1,3-Dichloropropene			10	200	<4	<4	<0.40	<0.8	< 4.0	<4.0	<4.0	<0.40	<0.40	<0.40	<40	<4.0	<0.40	<0.40	<0.40
trans-1,3-Dichloropropene			10	200	<4	<4	<0.40	<0.8	< 4.0	<4.0	<4.0	<0.40	<0.40	<0.40	<40	<4.0	<0.40	<0.40	<0.40
Diethyl ether (Ethyl ether)					<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<200	<20	<2.0	<2.0	<2.0
Di-Isopropyl ether					<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<50	<20	<2.0	<2.0	<2.0
1,4-Dioxane			5000	50000	<2500	<2500	<250	<500	< 2500	<2500	<250	<50	<50	<50	<5000 K-	<2500 K-	<50	<50	<50
Ethylbenzene			20000	5000	<10	<10	<1.0	<2.0	< 10	<10	<10	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	<1.0
Hexachlorobutadiene			50	3000	<6	<6	<0.60	<1.2	< 6.0	<6.0	<6.0	<0.60	<0.60	<0.60	<60	<6.0	<0.60	<0.60	<0.60
2-Hexanone			NS	NS	<50	<50	<5.0	<10	< 50	<50	<50	<5.0	<5.0	<5.0	<1000	<50	<5.0	<5.0	<5.0
Isopropyl benzene			NS	NS	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<100	<20	<2.0	2.3	<2.0
4-Isopropyltoluene			NS	NS	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	<2.0
Methyl tert-butyl ether			50000	50000	<20	<20	2.9	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	<2.0
4-Methyl-2-pentanone (MIBK)			50000	50000	<50	<50	<5.0	<10	< 50	<50	<50	<5.0	<5.0	<5.0	<1000	<50	<5.0	<5.0	<5.0
Methylene chloride			2000	50000	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<500	<20	<2.0	<2.0	<2.0
Naphthalene			700	20000	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<200	<20	<2.0	<2.0	<2.0
n-Propylbenzene			NS	NS	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<100	<20	<2.0	3.4	<2.0
Styrene			100	6000	<10	<10	<1.0	<2.0	< 10	<10	5200	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	<1.0
Tert-amyl methyl ether			NS	NS	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<50	<20	<2.0	<2.0	<2.0
Tert-butyl ethyl ether			NS	NS	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<50	<20	<2.0	<2.0	<2.0
1,1,1,2-Tetrachloroethane			10	50000	<10	<10	<1.0	<2.0	< 10	<10	<10	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane			9	50000	<10	<10	<1.0	<2.0	< 10	<10	<10	<1.0	<1.0	<1.0	<50	<10	<1.0	<1.0	<1.0
Tetrachloroethylene (PCE)			20	30000	1200	1700	1600	170	1300	840	210	<1.0	<1.0	<1.0	12000 K+	440 K+	290	<1.0	1
Tetrahydrofuran			NS	NS	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	2	<2.0	<200	<20	<2.0	<2.0	<2.0
Toluene			50000	40000	<10	<10	<1.0	<2.0	< 10	<10	<10	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene			NS	NS	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<200	<20	<2.0	<2.0	<2.0
1,2,4-Trichlorobenzene			200	50000	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	<2.0
1,1,1-Trichloroethane (TCA)			4000	20000	<10	<10	<1.0	<2.0	< 10	<10	<10	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	<1.0
1,1,2-Trichloroethane			900	50000	<10	<10	<1.0	<2.0	< 10	<10	<10	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	<1.0
Trichloroethylene (TCE)			5	5000	160	170	200	41	150	100	<50	<1.0	<1.0	<1.0	2600	66	36	<1.0	<1.0
Trichlorofluoromethane			NS	NS	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<200	<20	<2.0	<2.0	<2.0
1,2,3-Trichloropropane			NS	NS	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<200	<20	<2.0	<2.0	<2.0
1,2,4-Trimethylbenzene			NS	NS	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	<2.0
1,3,5-Trimethylbenzene			NS	NS	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<100	<20	<2.0	<2.0	<2.0
Vinyl chloride			2	50000	<10	<10	1.6	<2.0	< 10	<10	<10	<1.0	<1.0	<1.0	<200	<10	<1.0	<1.0	<1.0
m,p-Xylene			3000	5000	<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	<2.0	<2.0	<200	<20	<2.0	<2.0	<2.0
o-Xylene			3000	5000	<10	<10	<1.0	<2.0	< 10	<10	<10	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	<1.0
Total Xylene			3000	5000	<10	<10	<1.0	<2.0	< 10	<10	<10	<1.0	<1.0	<1.0	<200	<10	<1.0	<1.0	<1.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	GEO-4	GEO-4	GEO-4	GEO-4	GEO-4	GEO-4	GEO-4	GEO-4	GEO-5	GEO-5	GEO-5	GEO-5	GEO-5	GEO-5	GEO-5	GEO-5	GEO-6	GEO-6	GEO-6	GEO-6	GEO-6	GEO6	GEO-6	GEO-6	GEO-6
					Sample Name:	GEO-4	GEO-4	GEO-4	GEO-4	GEO-4	GEO-4	GEO-4	GEO-4	GEO-5	GEO-5	GEO-5	GEO-5	GEO-5	GEO-5	GEO-5	GEO-5	GEO-6	GEO-6	GEO-6	GEO-6	GEO-6	GEO-6	GEO-6	GEO-6	GEO-6	GEO-6	GEO-6
					Well Screen Interval (ft bgs):	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20
					Sample Date:	8/16/04	5/24/06	10/4/06	1/16/07	4/16/07	4/4/24	3/18/25	11/12/25	8/16/04	5/24/06	10/4/06	1/16/07	4/16/07	4/3/24	3/18/25	11/12/25	8/16/04	5/24/06	10/4/06	1/16/07	1/16/07	4/16/07	4/16/07	4/3/24	3/19/25
					Collected By:	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																														
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT			NT	NT	NT	NT
Arsenic			NS	900																				< 10	< 10					
Iron			NS	NS																				< 100	< 100					
Manganese			NS	NS																				NT	NT					
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																										
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT			NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																				< 10	< 10					
Ethane	8015	µg/l	NS	NS																				< 10	< 10					
Ethylene	8015	µg/l	NS	NS																				< 10	< 10					
Alkalinity	E310.1	µg/l*	NS	NS																				134000	133000					
Chloride	E325.3	µg/l	NS	NS																				825000	825000					
Chlorine, Total Residual	E330.4	µg/l																						NT	NT					
Iron, Ferrous	3500FE B	µg/l	NS	NS																				NT	NT					
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																				3500	3500					
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																				3500	3500					
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																				< 10	< 10					
Sodium	6010C	µg/l	NS	NS																				NT	NT					
Sulfate	E375.4	µg/l	NS	NS																				45800	45500					
Sulfide	E376.1	µg/l																						< 2000	< 2000					
Surfactants	E425.1	µg/l	NS	NS																				< 100	< 100					
Total Organic Carbon	E415.1	µg/l	NS	NS																				< 1000	< 1000					

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	GEO-6	MW-102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW103	MW103	MW103	MW-103	MW103	MW103	MW103	MW103	MW103	MW106	MW106	MW106	MW106	MW106
					Sample Name:	GEO-6	MW-102	MW102	MW-102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW-103	MW103	MW103	MW-103	MW103	MW103	MW103	MW103	MW103	MW106	MW106	MW106	MW106	MW106
					Well Screen Interval (ft bgs):	5 to 20	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	9 to 19	9 to 19	9 to 19	9 to 19	9 to 19
					Sample Date:	11/12/25	5/24/06	10/5/06	1/16/07	4/13/07	7/18/07	10/10/07	1/10/08	4/17/08	4/3/24	4/23/25	11/11/25	5/24/06	8/7/06	10/5/06	1/16/07	1/18/07	4/13/07	4/3/24	4/23/25	11/11/25	1/18/07	4/13/07	7/19/07	10/10/07	1/10/08
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																															
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT		NT	NT	NT	NT		NT	NT	NT	NT
Arsenic			NS	900																		< 10					< 10				
Iron			NS	NS																		< 100					319				
Manganese			NS	NS																		NT					NT				
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																											
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT		NT	NT	NT	NT		NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																		< 10					< 10				
Ethane	8015	µg/l	NS	NS																		< 10					< 10				
Ethylene	8015	µg/l	NS	NS																		< 10					< 10				
Alkalinity	E310.1	µg/l*	NS	NS																		53500					83100				
Chloride	E325.3	µg/l	NS	NS																		675000					1870000				
Chlorine, Total Residual	E330.4	µg/l																				NT					NT				
Iron, Ferrous	3500FE B	µg/l	NS	NS																		NT					NT				
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																		8900					12900				
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																		8900					12800				
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																		16					83				
Sodium	6010C	µg/l	NS	NS																		NT					NT				
Sulfate	E375.4	µg/l	NS	NS																		65700					86800				
Sulfide	E376.1	µg/l																				< 2000					< 2000				
Surfactants	E425.1	µg/l	NS	NS																		< 100					< 100				
Total Organic Carbon	E415.1	µg/l	NS	NS																		1700					1300				

General Notes:

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2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW106	MW106	MW106	MW107	MW107	MW107	MW107	MW107	MW107	MW107	MW107	MW107	MW108	MW108	MW108	MW108	MW108	MW108	MW108	MW108	MW108	MW108	MW109	MW109	MW109
					Sample Name:	MW106	MW106	MW106	MW107	MW107	MW107	MW107	MW107	MW107	MW107	MW107	MW107	MW108	MW108	MW108	MW108	MW108	MW108	MW108	MW108	MW108	MW108	MW109	MW109	MW109
					Well Screen Interval (ft bgs):	9 to 19	9 to 19	9 to 19	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 13	2 to 13	3 to 13	3 to 13	3 to 13
					Sample Date:	4/17/08	4/3/24	3/19/25	1/18/07	4/13/07	7/18/07	10/10/07	1/10/08	4/17/08	4/2/24	4/22/25	11/12/25	1/18/07	4/16/07	7/18/07	10/10/07	1/10/08	4/17/08	9/15/23	4/2/24	4/22/25	11/12/25	1/18/07	4/16/07	4/17/08
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
TPH-DRO																														
Metals (Total)	6010B	µg/l			NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
Arsenic			NS	900					< 10									< 10												
Iron			NS	NS					6160									< 100												
Manganese			NS	NS					NT									NT												
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
Iron			NS	NS																										
Others					NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
Methane	8015	µg/l	NS	NS					4.13 J									0.18 J												
Ethane	8015	µg/l	NS	NS					< 10									< 10												
Ethylene	8015	µg/l	NS	NS					< 10									< 10												
Alkalinity	E310.1	µg/l*	NS	NS					174000									71100												
Chloride	E325.3	µg/l	NS	NS					100000									235000												
Chlorine, Total Residual	E330.4	µg/l							NT									NT												
Iron, Ferrous	3500FE B	µg/l	NS	NS					NT									NT												
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS					100									< 100												
Nitrogen, Nitrate	E353.2	µg/l	NS	NS					< 110									< 110												
Nitrogen, Nitrite	E354.1	µg/l	NS	NS					< 10									< 10												
Sodium	6010C	µg/l	NS	NS					NT									NT												
Sulfate	E375.4	µg/l	NS	NS					33400									28100												
Sulfide	E376.1	µg/l							< 2000									< 2000												
Surfactants	E425.1	µg/l	NS	NS					150									< 100												
Total Organic Carbon	E415.1	µg/l	NS	NS					12200									1300												

General Notes:

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5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
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G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW109	MW109	MW109	MW111	MW111	MW111	MW111	MW111	MW111	MW111R	MW111R	MW111R	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A
					Sample Name:	MW109	MW109	MW109	MW111	MW111	MW111	MW111	MW111	MW111	MW111R	MW111R	MW111R	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A
					Well Screen Interval (ft bgs):	3 to 13	3 to 13	3 to 13	4 to 14	4 to 14	4 to 14	4 to 14	4 to 14	4 to 14	5 to 15	5 to 15	5 to 15	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19
					Sample Date:	4/2/24	3/19/25	11/13/25	1/18/07	4/16/07	7/18/07	10/10/07	1/10/08	4/17/08	3/7/25	4/24/25	11/12/25	3/23/07	4/16/07	7/18/07	10/10/07	1/10/08	4/17/08	7/14/08	7/14/08	10/22/08	10/22/08	1/12/09	1/12/09	4/13/09
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																														
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																										
Iron			NS	NS																										
Manganese			NS	NS																										
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																										
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																										
Ethane	8015	µg/l	NS	NS																										
Ethylene	8015	µg/l	NS	NS																										
Alkalinity	E310.1	µg/l*	NS	NS																										
Chloride	E325.3	µg/l	NS	NS																										
Chlorine, Total Residual	E330.4	µg/l																												
Iron, Ferrous	3500FE B	µg/l	NS	NS																										
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																										
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																										
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																										
Sodium	6010C	µg/l	NS	NS																										
Sulfate	E375.4	µg/l	NS	NS																										
Sulfide	E376.1	µg/l																												
Surfactants	E425.1	µg/l	NS	NS																										
Total Organic Carbon	E415.1	µg/l	NS	NS																										

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
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K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A
					Sample Name:	MW901 (FD)	MW112A	MW901 (FD)	MW112A	MW900 (FD)	MW112A	MW900 (FD)	MW112A	MW900 (FD)	MW112A	MW900 (FD)	MW112A	MW112A	MW900 (FD)	MW112A	MW112A	MW900 (FD)	MW112A	MW112A	MW112A	MW112A	MW900 (FD)	MW112A	MW112A	MW112A
					Well Screen Interval (ft bgs):	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19
					Sample Date:	4/13/09	7/14/09	7/14/09	10/14/09	10/14/09	4/12/10	4/12/10	10/27/10	4/20/11	4/20/11	11/16/11	4/16/12	4/16/12	11/12/12	4/24/13	4/24/13	11/18/13	6/11/14	11/18/14	4/17/15	4/17/15	4/28/16	11/21/16	4/18/17
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT					
TPH-DRO																													
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT		NT	NT		NT	NT		NT	NT		NT	NT		NT		NT		NT	
Arsenic			NS	900						NT			NT			NT			NT			NT		NT		NT		NT
Iron			NS	NS						< 0.10 J+			NT			< 100			14200			NT		NT		NT		NT
Manganese			NS	NS						875			1570			954			1610			1470		909		1530		627
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																									
Others					NT	NT	NT	NT	NT		NT	NT		NT	NT		NT	NT		NT	NT		NT		NT		NT	
Methane	8015	µg/l	NS	NS						0.18 J B			< 0.30			0.66			0.10 J			< 10		< 10		< 10		<10
Ethane	8015	µg/l	NS	NS						< 0.10			< 0.10			< 0.10			< 0.10			< 10		< 10		< 10		<10
Ethylene	8015	µg/l	NS	NS						< 0.10			< 0.10			< 0.10			< 0.10			< 10		< 10		< 10		<10
Alkalinity	E310.1	µg/l*	NS	NS						233000			252000			245000			278000			285000		266000		332000		339000
Chloride	E325.3	µg/l	NS	NS						810000			915000			655000			857000			815000		700000		700000		439000
Chlorine, Total Residual	E330.4	µg/l								< 50 A			< 50			< 50 A			< 50 A F- J			< 50 A						
Iron, Ferrous	3500FE B	µg/l	NS	NS						NT			NT			NT			NT			< 100		< 100		< 100		<100
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS						4700			3500			2600			1300			650		1200		490		620
Nitrogen, Nitrate	E353.2	µg/l	NS	NS						4700			3500			2600			1300			650		1200		490		620
Nitrogen, Nitrite	E354.1	µg/l	NS	NS						11			< 10			< 10			< 10			< 10		< 10		< 10		<10
Sodium	6010C	µg/l	NS	NS						NT			NT			NT			NT			NT		NT		NT		NT
Sulfate	E375.4	µg/l	NS	NS						57100			52200			66100			68000			90900		63100		117000		71000
Sulfide	E376.1	µg/l								< 2000			< 2000			< 2000			< 2000			< 2000						
Surfactants	E425.1	µg/l	NS	NS						< 100			< 100			< 100			< 100			< 100		< 100		< 100		<100
Total Organic Carbon	E415.1	µg/l	NS	NS						1200			1100			< 1000			1500			< 1000		< 5000		< 1000		<1000

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW-115/115R	MW-115/115R	MW-115/115R
					Sample Name:	MW901 (FD)	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW-115/115R	MW-115/115R	MW-115/115R
					Well Screen Interval (ft bgs):	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	10 to 25	10 to 25	10 to 25
					Sample Date:	4/18/2017	11/10/2017	4/4/2018	11/15/2018	4/15/2019	11/22/2019	4/16/2020	11/18/2020	4/13/2021	11/30/2021	4/14/2022	11/29/2022	5/11/2023	11/7/2023	4/2/2024	11/14/2024	4/25/2025	11/13/2025	1/20/25	4/22/25	11/13/25
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L																NT	NT	NT	NT	NT	NT
TPH-DRO																									
Metals (Total)	6010B	µg/l			NT	NT		NT		NT		NT		NT		NT	NT	NT					NT	NT	NT
Arsenic			NS	900			NT		NT		NT		NT		NT				NT	NT	NT	NT			
Iron			NS	NS			NT		NT		NT		NT		NT				NT	NT	NT	NT			
Manganese			NS	NS			2620		3360		2600		2550		635				2020	2020	1480	2260			
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT		NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS					NT		NT														
Others					NT	NT		NT		NT		NT		NT	NT	NT		NT		NT			NT	NT	NT
Methane	8015	µg/l	NS	NS			320		6.7		17.6		5.88		2.11		3.94		4.64		5.31	13			
Ethane	8015	µg/l	NS	NS			12.2		<0.23		<0.500		<0.500		<0.500		<0.500		<3		<3.0	<5.2			
Ethylene	8015	µg/l	NS	NS			<0.31		<0.31		<0.500		<0.500		<0.500		<0.500		3.91		<3.0	<6.5			
Alkalinity	E310.1	µg/l*	NS	NS			247000		259000		248000		234000		265000		249000		245000		246	235			
Chloride	E325.3	µg/l	NS	NS			170000		517000		440000		540000		410000		560000		640000		490000	440000			
Chlorine, Total Residual	E330.4	µg/l					280		<100		<20		<20		<20		<20		<20			<200			
Iron, Ferrous	3500FE B	µg/l	NS	NS			<200		<200		<500		<500		<500		<500		<500		<500	<500			
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS			<100		490		330		240		<380		<100		210		360	3000			
Nitrogen, Nitrate	E353.2	µg/l	NS	NS			<110		480		334		217		<371		<100		207		307	2960			
Nitrogen, Nitrite	E354.1	µg/l	NS	NS			<10		<10		<300		<300		<300		423		<300		326	1300			
Sodium	6010C	µg/l	NS	NS			NT		NT		NT		NT		NT		NT		NT		NT	NT			
Sulfate	E375.4	µg/l	NS	NS			59200		551000		50000		50000		60000		44000		78000		71000	620000			
Sulfide	E376.1	µg/l					<200		<200		<100		<100		<100		<50		<50			NT			
Surfactants	E425.1	µg/l	NS	NS			<100		<100		<50		<50		<50		70		<50		<50	<50			
Total Organic Carbon	E415.1	µg/l	NS	NS			1700		<1000		750		700		750		2600		<500		<500	<500			

General Notes:

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3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116
					Sample Name:	MW116	MW116	MW116	MW901 (FD)	MW116	MW901 (FD)	MW116	MW901 (FD)	MW116	MW901 (FD)	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW901 (FD)	MW116	MW901 (FD)	MW116	MW901 (FD)	MW116	MW116	MW901 (FD)
					Well Screen Interval (ft bgs):	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15
					Sample Date:	3/23/07	4/16/07	7/18/07	7/18/07	10/12/07	10/12/07	1/11/08	1/11/08	4/15/08	4/15/08	7/16/08	10/21/08	1/14/09	4/15/09	7/14/09	10/14/09	4/13/10	4/13/10	4/21/11	4/21/11	4/17/12	4/17/12	4/24/13	4/24/13	4/24/13
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																														
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																										
Iron			NS	NS																										
Manganese			NS	NS																										
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																										
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																										
Ethane	8015	µg/l	NS	NS																										
Ethylene	8015	µg/l	NS	NS																										
Alkalinity	E310.1	µg/l*	NS	NS																										
Chloride	E325.3	µg/l	NS	NS																										
Chlorine, Total Residual	E330.4	µg/l																												
Iron, Ferrous	3500FE B	µg/l	NS	NS																										
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																										
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																										
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																										
Sodium	6010C	µg/l	NS	NS																										
Sulfate	E375.4	µg/l	NS	NS																										
Sulfide	E376.1	µg/l																												
Surfactants	E425.1	µg/l	NS	NS																										
Total Organic Carbon	E415.1	µg/l	NS	NS																										

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
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K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116	MW116
					Sample Name:	MW116	MW900 (FD)	MW116	MW900 (FD)	MW116	MW900 (FD)	MW116	MW900 (FD)	MW116	MW900 (FD)	MW116	MW900 (FD)	MW116	MW900 (FD)	MW116	MW900	MW116	MW900	MW116	MW900	MW116	MW900	MW116	MW116	MW900
					Well Screen Interval (ft bgs):	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15
					Sample Date:	5/1/14	5/1/14	4/2/15	4/2/15	4/29/16	4/29/16	4/17/17	4/17/17	4/4/18	4/4/18	4/16/19	4/16/19	4/17/20	4/17/20	4/14/21	4/14/21	4/14/22	4/14/22	4/18/23	4/18/23	4/3/24	4/3/24	4/24/25	4/24/25
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L	NT	NT	NT	NT																			NT	NT
TPH-DRO																												
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																								
Iron			NS	NS																								
Manganese			NS	NS																								
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																								
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																								
Ethane	8015	µg/l	NS	NS																								
Ethylene	8015	µg/l	NS	NS																								
Alkalinity	E310.1	µg/l*	NS	NS																								
Chloride	E325.3	µg/l	NS	NS																								
Chlorine, Total Residual	E330.4	µg/l																										
Iron, Ferrous	3500FE B	µg/l	NS	NS																								
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																								
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																								
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																								
Sodium	6010C	µg/l	NS	NS																								
Sulfate	E375.4	µg/l	NS	NS																								
Sulfide	E376.1	µg/l																										
Surfactants	E425.1	µg/l	NS	NS																								
Total Organic Carbon	E415.1	µg/l	NS	NS																								

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
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7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
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Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW116	MW116	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D
					Sample Name:	MW116	MW900	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW901 (FD	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D
					Well Screen Interval (ft bgs):	5 to 15	5 to 15	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80
					Sample Date:	11/11/25	11/11/25	7/20/07	8/30/07	10/11/07	1/16/08	4/16/08	7/16/08	10/21/08	1/14/09	4/14/09	7/15/09	10/14/09	10/14/09	4/12/10	4/20/11	4/16/12	11/12/12	4/24/13	11/18/13	5/1/14	11/18/14	4/2/15	11/19/15	4/28/16	11/21/16
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT			
TPH-DRO																																
Metals (Total)	6010B	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																												
Iron			NS	NS																												
Manganese			NS	NS																												
Metals (Dissolved)	6010C	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																												
Others						NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																												
Ethane	8015	µg/l	NS	NS																												
Ethylene	8015	µg/l	NS	NS																												
Alkalinity	E310.1	µg/l*	NS	NS																												
Chloride	E325.3	µg/l	NS	NS																												
Chlorine, Total Residual	E330.4	µg/l																														
Iron, Ferrous	3500FE B	µg/l	NS	NS																												
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																												
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																												
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																												
Sodium	6010C	µg/l	NS	NS																												
Sulfate	E375.4	µg/l	NS	NS																												
Sulfide	E376.1	µg/l																														
Surfactants	E425.1	µg/l	NS	NS																												
Total Organic Carbon	E415.1	µg/l	NS	NS																												

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
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Qualifying Notes:

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C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
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K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
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R The result is rejected due to gross exceedence of minimum response factor criteria.

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118S	MW118S	MW118S	MW118S	MW118S
					Sample Name:	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118D	MW118S	MW118S	MW118S	MW118S	MW118S
					Well Screen Interval (ft bgs):	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	71 to 80	71 to 80	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14
					Sample Date:	4/17/2017	11/8/2017	4/3/2018	11/15/2018	4/15/2019	11/22/2019	4/16/2020	11/18/2020	4/13/2021	11/30/2021	4/12/2022	11/29/2022	4/17/2023	11/7/2023	4/2/2024	11/14/2024	4/22/2025	11/10/2025	7/20/07	8/30/07	10/11/07	1/11/08	4/16/08
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L																							
TPH-DRO																				NT	NT	NT	NT	NT	NT	NT	NT
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																							
Iron			NS	NS																							
Manganese			NS	NS																							
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																							
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																							
Ethane	8015	µg/l	NS	NS																							
Ethylene	8015	µg/l	NS	NS																							
Alkalinity	E310.1	µg/l*	NS	NS																							
Chloride	E325.3	µg/l	NS	NS																							
Chlorine, Total Residual	E330.4	µg/l																									
Iron, Ferrous	3500FE B	µg/l	NS	NS																							
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																							
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																							
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																							
Sodium	6010C	µg/l	NS	NS																							
Sulfate	E375.4	µg/l	NS	NS																							
Sulfide	E376.1	µg/l																									
Surfactants	E425.1	µg/l	NS	NS																							
Total Organic Carbon	E415.1	µg/l	NS	NS																							

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118T	MW118T	MW118T
					Sample Name:	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118S	MW118T	MW118T	MW118T
					Well Screen Interval (ft bgs):	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5
					Sample Date:	7/15/08	10/21/08	1/14/09	4/15/09	7/15/09	10/14/09	4/12/10	4/20/11	4/24/13	5/1/14	4/2/15	4/28/16	4/17/17	4/3/18	4/15/19	4/16/20	4/13/21	4/12/22	4/17/23	4/2/24	4/22/25	11/10/25	7/20/07	8/30/07	10/11/07
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT										NT	NT	NT	NT	NT
TPH-DRO																													
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																									
Iron			NS	NS																									
Manganese			NS	NS																									
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																									
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																									
Ethane	8015	µg/l	NS	NS																									
Ethylene	8015	µg/l	NS	NS																									
Alkalinity	E310.1	µg/l*	NS	NS																									
Chloride	E325.3	µg/l	NS	NS																									
Chlorine, Total Residual	E330.4	µg/l																											
Iron, Ferrous	3500FE B	µg/l	NS	NS																									
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																									
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																									
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																									
Sodium	6010C	µg/l	NS	NS																									
Sulfate	E375.4	µg/l	NS	NS																									
Sulfide	E376.1	µg/l																											
Surfactants	E425.1	µg/l	NS	NS																									
Total Organic Carbon	E415.1	µg/l	NS	NS																									

General Notes:

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8. * = micrograms CaCO3 per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T
					Sample Name:	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T	MW118T
					Well Screen Interval (ft bgs):	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5
					Sample Date:	1/15/08	4/16/08	7/15/08	10/21/08	1/14/09	4/14/09	7/14/09	10/15/09	4/12/10	4/20/11	4/17/12	4/24/13	5/1/14	4/3/15	4/28/16	4/17/17	4/3/18	4/16/19	4/17/20	4/13/21
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT						
TPH-DRO																									
Metals (Total)	6010B	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																					
Iron			NS	NS																					
Manganese			NS	NS																					
Metals (Dissolved)	6010C	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																					
Others						NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																					
Ethane	8015	µg/l	NS	NS																					
Ethylene	8015	µg/l	NS	NS																					
Alkalinity	E310.1	µg/l*	NS	NS																					
Chloride	E325.3	µg/l	NS	NS																					
Chlorine, Total Residual	E330.4	µg/l																							
Iron, Ferrous	3500FE B	µg/l	NS	NS																					
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																					
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																					
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																					
Sodium	6010C	µg/l	NS	NS																					
Sulfate	E375.4	µg/l	NS	NS																					
Sulfide	E376.1	µg/l																							
Surfactants	E425.1	µg/l	NS	NS																					
Total Organic Carbon	E415.1	µg/l	NS	NS																					

General Notes:

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8. * = micrograms CaCO3 per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW118T	MW118T	MW118T	MW118T	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S
					Sample Name:	MW118T	MW118T	MW118T	MW118T	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S
					Well Screen Interval (ft bgs):	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20
					Sample Date:	4/12/22	4/17/23	4/2/24	4/22/25	11/10/25	8/22/07	10/12/07	1/15/08	4/16/08	7/15/08	10/22/08	1/13/09	4/13/09	7/15/09	10/15/09	4/13/10	4/22/11	4/16/12	4/23/13	5/1/14	4/2/15	4/28/16	4/18/17	4/3/18
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT			
TPH-DRO																												
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																								
Iron			NS	NS																								
Manganese			NS	NS																								
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																								
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																								
Ethane	8015	µg/l	NS	NS																								
Ethylene	8015	µg/l	NS	NS																								
Alkalinity	E310.1	µg/l*	NS	NS																								
Chloride	E325.3	µg/l	NS	NS																								
Chlorine, Total Residual	E330.4	µg/l																										
Iron, Ferrous	3500FE B	µg/l	NS	NS																								
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																								
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																								
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																								
Sodium	6010C	µg/l	NS	NS																								
Sulfate	E375.4	µg/l	NS	NS																								
Sulfide	E376.1	µg/l																										
Surfactants	E425.1	µg/l	NS	NS																								
Total Organic Carbon	E415.1	µg/l	NS	NS																								

General Notes:

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Qualifying Notes:

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Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T
					Sample Name:	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119S	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T
					Well Screen Interval (ft bgs):	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47
					Sample Date:	4/16/19	4/17/20	4/14/21	4/13/22	4/17/23	4/2/24	4/2/24	4/22/25	11/11/25	8/22/07	10/12/07	1/16/08	4/16/08	7/15/08	10/22/08	1/13/09	4/13/09	7/15/09	10/15/09	4/13/10	4/22/11	4/16/12	4/23/13	5/1/14	4/2/15	4/28/16
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L								NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
TPH-DRO																														
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																										
Iron			NS	NS																										
Manganese			NS	NS																										
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																										
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																										
Ethane	8015	µg/l	NS	NS																										
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Alkalinity	E310.1	µg/l*	NS	NS																										
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Nitrogen, Nitrate	E353.2	µg/l	NS	NS																										
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Sulfide	E376.1	µg/l																												
Surfactants	E425.1	µg/l	NS	NS																										
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Qualifying Notes:

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Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW120D	MW120D	MW120D	MW1120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D
					Sample Name:	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW119T	MW120D	MW120D	MW120D	MW1120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D
					Well Screen Interval (ft bgs):	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	42 to 47	28 to 38	28 to 38	28 to 38	28 to 38	28 to 38	28 to 38	28 to 38	28 to 38	28 to 38	28 to 38	28 to 38	28 to 38	28 to 38	28 to 38	28 to 38
					Sample Date:	4/18/17	4/3/18	4/16/19	4/17/20	4/14/21	4/13/22	4/17/23	4/2/24	4/22/25	11/13/25	8/22/07	10/12/07	1/17/08	4/16/08	7/15/08	10/22/08	1/13/09	4/14/09	7/15/09	10/15/09	4/13/10	4/22/11	4/16/12	4/23/13	5/1/14	4/3/15
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L										NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																														
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																										
Iron			NS	NS																										
Manganese			NS	NS																										
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																										
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																										
Ethane	8015	µg/l	NS	NS																										
Ethylene	8015	µg/l	NS	NS																										
Alkalinity	E310.1	µg/l*	NS	NS																										
Chloride	E325.3	µg/l	NS	NS																										
Chlorine, Total Residual	E330.4	µg/l																												
Iron, Ferrous	3500FE B	µg/l	NS	NS																										
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																										
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																										
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																										
Sodium	6010C	µg/l	NS	NS																										
Sulfate	E375.4	µg/l	NS	NS																										
Sulfide	E376.1	µg/l																												
Surfactants	E425.1	µg/l	NS	NS																										
Total Organic Carbon	E415.1	µg/l	NS	NS																										

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
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4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120S	MW120S	MW120S	MW1120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S
					Sample Name:	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120D	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S
					Well Screen Interval (ft bgs):	28 to 38	28 to 38	28 to 38	28 to 38	28 to 38	28 to 38	28 to 38	28 to 38	28 to 38	28 to 38	28 to 38	28 to 38	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20
					Sample Date:	4/28/16	4/18/17	4/4/18	4/16/19	4/17/20	4/14/21	4/13/22	4/18/23	4/3/24	4/3/24	4/22/25	11/11/25	8/22/07	10/12/07	1/15/08	4/16/08	7/15/08	10/22/08	1/13/09	4/14/09	7/15/09	10/15/09	4/13/10	4/22/11	4/16/12	4/23/13
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L											NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																														
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																										
Iron			NS	NS																										
Manganese			NS	NS																										
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																										
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																										
Ethane	8015	µg/l	NS	NS																										
Ethylene	8015	µg/l	NS	NS																										
Alkalinity	E310.1	µg/l*	NS	NS																										
Chloride	E325.3	µg/l	NS	NS																										
Chlorine, Total Residual	E330.4	µg/l																												
Iron, Ferrous	3500FE B	µg/l	NS	NS																										
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																										
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																										
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																										
Sodium	6010C	µg/l	NS	NS																										
Sulfate	E375.4	µg/l	NS	NS																										
Sulfide	E376.1	µg/l																												
Surfactants	E425.1	µg/l	NS	NS																										
Total Organic Carbon	E415.1	µg/l	NS	NS																										

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
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Qualifying Notes:

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C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D
					Sample Name:	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW120S	MW121D	MW121D	MW121D	MW121D	MW901	MW121D	MW900 (FD)	MW121D	MW901 (FD)	MW121D
					Well Screen Interval (ft bgs):	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1
					Sample Date:	5/1/14	4/3/15	4/28/16	4/18/17	4/4/18	4/16/19	4/17/20	4/14/21	4/13/22	4/18/23	4/2/24	4/22/25	11/11/25	10/22/07	1/15/08	4/17/08	7/14/08	7/14/08	10/22/08	10/22/08	1/12/09	1/12/09	4/13/09
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L		NT	NT										NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																												
Metals (Total)	6010B	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																								
Iron			NS	NS																								
Manganese			NS	NS																								
Metals (Dissolved)	6010C	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																								
Others						NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																								
Ethane	8015	µg/l	NS	NS																								
Ethylene	8015	µg/l	NS	NS																								
Alkalinity	E310.1	µg/l*	NS	NS																								
Chloride	E325.3	µg/l	NS	NS																								
Chlorine, Total Residual	E330.4	µg/l																										
Iron, Ferrous	3500FE B	µg/l	NS	NS																								
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																								
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																								
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																								
Sodium	6010C	µg/l	NS	NS																								
Sulfate	E375.4	µg/l	NS	NS																								
Sulfide	E376.1	µg/l																										
Surfactants	E425.1	µg/l	NS	NS																								
Total Organic Carbon	E415.1	µg/l	NS	NS																								

General Notes:

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2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
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K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D
					Sample Name:	MW900 (FD)	MW121D	MW900 (FD)	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D
					Well Screen Interval (ft bgs):	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1
					Sample Date:	4/13/09	7/14/09	7/14/09	10/14/09	4/12/10	4/20/11	4/16/12	11/12/12	4/23/13	11/18/13	4/30/14	11/18/14	4/2/15	11/19/15	4/28/16	11/21/16	4/17/17	11/8/17	4/3/18	11/15/18
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT							
TPH-DRO																								
Metals (Total)	6010B	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																				
Iron			NS	NS																				
Manganese			NS	NS																				
Metals (Dissolved)	6010C	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																				
Others						NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																				
Ethane	8015	µg/l	NS	NS																				
Ethylene	8015	µg/l	NS	NS																				
Alkalinity	E310.1	µg/l*	NS	NS																				
Chloride	E325.3	µg/l	NS	NS																				
Chlorine, Total Residual	E330.4	µg/l																						
Iron, Ferrous	3500FE B	µg/l	NS	NS																				
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																				
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																				
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																				
Sodium	6010C	µg/l	NS	NS																				
Sulfate	E375.4	µg/l	NS	NS																				
Sulfide	E376.1	µg/l																						
Surfactants	E425.1	µg/l	NS	NS																				
Total Organic Carbon	E415.1	µg/l	NS	NS																				

General Notes:

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Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S
					Sample Name:	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121D	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S
					Well Screen Interval (ft bgs):	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20
					Sample Date:	4/15/19	11/22/19	4/16/20	11/18/20	4/13/21	11/30/21	4/13/22	11/29/22	4/18/23	11/7/23	4/3/24	11/14/24	4/23/25	11/11/25	10/22/07	1/15/08	4/17/08	7/14/08	10/22/08	1/12/09	4/13/09	7/14/09
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L													NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																										
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																						
Iron			NS	NS																						
Manganese			NS	NS																						
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																						
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																						
Ethane	8015	µg/l	NS	NS																						
Ethylene	8015	µg/l	NS	NS																						
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Chloride	E325.3	µg/l	NS	NS																						
Chlorine, Total Residual	E330.4	µg/l																								
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Nitrogen, Nitrate	E353.2	µg/l	NS	NS																						
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																						
Sodium	6010C	µg/l	NS	NS																						
Sulfate	E375.4	µg/l	NS	NS																						
Sulfide	E376.1	µg/l																								
Surfactants	E425.1	µg/l	NS	NS																						
Total Organic Carbon	E415.1	µg/l	NS	NS																						

General Notes:

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Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122
					Sample Name:	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW121S	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122
					Well Screen Interval (ft bgs):	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16
					Sample Date:	10/14/09	4/12/10	4/20/11	4/16/12	4/23/13	4/30/14	4/2/15	4/28/16	4/17/17	4/3/18	4/15/19	4/16/20	4/13/21	4/13/22	4/13/22	4/3/24	4/23/25	11/11/25	1/30/08	4/17/08	7/14/08	10/22/08	1/12/09	4/13/09	7/15/09	10/14/09
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L		NT	NT	NT	NT	NT	NT											NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																														
Metals (Total)	6010B	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																										
Iron			NS	NS																										
Manganese			NS	NS																										
Metals (Dissolved)	6010C	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																										
Others						NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																										
Ethane	8015	µg/l	NS	NS																										
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Nitrogen, Nitrate	E353.2	µg/l	NS	NS																										
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																										
Sodium	6010C	µg/l	NS	NS																										
Sulfate	E375.4	µg/l	NS	NS																										
Sulfide	E376.1	µg/l																												
Surfactants	E425.1	µg/l	NS	NS																										
Total Organic Carbon	E415.1	µg/l	NS	NS																										

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122
					Sample Name:	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122
					Well Screen Interval (ft bgs):	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16
					Sample Date:	4/12/10	10/27/10	4/20/11	11/16/11	4/17/12	11/12/12	4/23/13	11/18/13	4/30/14	11/18/14	4/2/15	11/19/15	4/28/16	11/21/16	4/17/2017	11/8/2017	4/3/2018	11/15/2018	4/16/2019	11/22/2019	4/16/2020	11/18/2020	4/13/2021	11/30/2021	4/13/2022
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT														
TPH-DRO																													
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																									
Iron			NS	NS																									
Manganese			NS	NS																									
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																									
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																									
Ethane	8015	µg/l	NS	NS																									
Ethylene	8015	µg/l	NS	NS																									
Alkalinity	E310.1	µg/l*	NS	NS																									
Chloride	E325.3	µg/l	NS	NS																									
Chlorine, Total Residual	E330.4	µg/l																											
Iron, Ferrous	3500FE B	µg/l	NS	NS																									
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																									
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																									
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																									
Sodium	6010C	µg/l	NS	NS																									
Sulfate	E375.4	µg/l	NS	NS																									
Sulfide	E376.1	µg/l																											
Surfactants	E425.1	µg/l	NS	NS																									
Total Organic Carbon	E415.1	µg/l	NS	NS																									

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
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K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW122	MW122	MW122	MW122	MW122	MW122	MW-301	MW-301	MW-301	MW401D	MW401S	MW402	MW405	MW406
					Sample Name:	MW122	MW122	MW122	MW122	MW122	MW122	MW-301	MW-301	MW-301	MW401D	MW401S	MW402	MW405	MW406
					Well Screen Interval (ft bgs):	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	5-15	5-15	5-15	34-44	4 to 16	20-30	8-18	4-14
					Sample Date:	11/29/2022	4/17/2023	11/7/2023	4/4/2024	11/14/2024	4/24/2025	11/12/2025	1/20/25	4/23/25	11/11/25	11/13/25	11/13/2025	11/11/25	11/10/25	11/10/25
					Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L						NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TPH-DRO																				
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																
Iron			NS	NS																
Manganese			NS	NS																
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																
Ethane	8015	µg/l	NS	NS																
Ethylene	8015	µg/l	NS	NS																
Alkalinity	E310.1	µg/l*	NS	NS																
Chloride	E325.3	µg/l	NS	NS																
Chlorine, Total Residual	E330.4	µg/l																		
Iron, Ferrous	3500FE B	µg/l	NS	NS																
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																
Sodium	6010C	µg/l	NS	NS																
Sulfate	E375.4	µg/l	NS	NS																
Sulfide	E376.1	µg/l																		
Surfactants	E425.1	µg/l	NS	NS																
Total Organic Carbon	E415.1	µg/l	NS	NS																

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
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F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
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K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2572383
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-01
Client ID: 045163-MW115R
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/13/25 07:20
Date Received: 11/13/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/18/25 11:18
Analyst: MFF
Extraction Method: EPA 5030B
Extraction Date: 11/18/25 08:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2572383

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-01 Date Collected: 11/13/25 07:20

Client ID: 045163-MW115R Date Received: 11/13/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND	V-05	ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND	R-05	ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2572383

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-01 Date Collected: 11/13/25 07:20

Client ID: 045163-MW115R Date Received: 11/13/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2572383
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-02
Client ID: 045163-MW109
Sample Location: SOMERVILLE, MASSACHUSETTS

Date Collected: 11/13/25 07:50
Date Received: 11/13/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/18/25 11:44
Analyst: MFF

Extraction Method: EPA 5030B
Extraction Date: 11/18/25 08:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	17		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	1.1		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2572383

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-02 Date Collected: 11/13/25 07:50

Client ID: 045163-MW109 Date Received: 11/13/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND	V-05	ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND	R-05	ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2572383

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-02 Date Collected: 11/13/25 07:50

Client ID: 045163-MW109 Date Received: 11/13/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	88		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2572383
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-04
Client ID: 045163-MW401D
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/13/25 09:40
Date Received: 11/13/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/18/25 17:03
Analyst: MFF
Extraction Method: EPA 5030B
Extraction Date: 11/18/25 08:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-05	ug/l	500	--	100
1,1-Dichloroethane	500	RL-05	ug/l	100	--	100
Chloroform	ND	RL-05	ug/l	200	--	100
Carbon tetrachloride	ND	RL-05	ug/l	100	--	100
1,2-Dichloropropane	ND	RL-05	ug/l	100	--	100
Chlorodibromomethane	ND	RL-05	ug/l	50	--	100
1,1,2-Trichloroethane	ND	RL-05	ug/l	100	--	100
Tetrachloroethene	12000	RL-05	ug/l	100	--	100
Chlorobenzene	ND	RL-05	ug/l	100	--	100
Trichlorofluoromethane	ND	RL-05	ug/l	200	--	100
1,2-Dichloroethane	ND	RL-05	ug/l	100	--	100
1,1,1-Trichloroethane	ND	RL-05	ug/l	100	--	100
Bromodichloromethane	ND	RL-05	ug/l	100	--	100
trans-1,3-Dichloropropene	ND	RL-05	ug/l	40	--	100
cis-1,3-Dichloropropene	ND	RL-05	ug/l	40	--	100
1,1-Dichloropropene	ND	RL-05	ug/l	50	--	100
Bromoform	ND	RL-05	ug/l	100	--	100
1,1,2,2-Tetrachloroethane	ND	RL-05	ug/l	50	--	100
Benzene	ND	RL-05	ug/l	100	--	100
Toluene	ND	RL-05	ug/l	100	--	100
Ethylbenzene	ND	RL-05	ug/l	100	--	100
Chloromethane	ND	RL-05	ug/l	200	--	100
Bromomethane	ND	RL-05	ug/l	200	--	100
Vinyl chloride	ND	RL-05	ug/l	200	--	100
Chloroethane	ND	RL-05	ug/l	200	--	100
1,1-Dichloroethene	140	RL-05	ug/l	100	--	100
trans-1,2-Dichloroethene	ND	RL-05	ug/l	100	--	100
Trichloroethene	2600	RL-05	ug/l	100	--	100

Project Name: 50 TUFTS STREET **Lab Number:** L2572383

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-04 Date Collected: 11/13/25 09:40

Client ID: 045163-MW401D Date Received: 11/13/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND	RL-05	ug/l	100	--	100
1,3-Dichlorobenzene	ND	RL-05	ug/l	100	--	100
1,4-Dichlorobenzene	ND	RL-05	ug/l	100	--	100
Methyl tert-butyl ether	ND	RL-05	ug/l	100	--	100
p/m-Xylene	ND	RL-05	ug/l	200	--	100
o-Xylene	ND	RL-05	ug/l	100	--	100
cis-1,2-Dichloroethene	400	RL-05	ug/l	100	--	100
Dibromomethane	ND	RL-05	ug/l	100	--	100
1,2,3-Trichloropropane	ND	RL-05	ug/l	200	--	100
Styrene	ND	RL-05	ug/l	100	--	100
Dichlorodifluoromethane	ND	RL-05	ug/l	200	--	100
Acetone	ND	RL-05	ug/l	1000	--	100
Carbon disulfide	ND	RL-05	ug/l	500	--	100
2-Butanone	ND	RL-05	ug/l	1000	--	100
4-Methyl-2-pentanone	ND	RL-05	ug/l	1000	--	100
2-Hexanone	ND	RL-05	ug/l	1000	--	100
Bromochloromethane	ND	RL-05	ug/l	100	--	100
Tetrahydrofuran	ND	V-05, RL-05	ug/l	200	--	100
2,2-Dichloropropane	ND	RL-05	ug/l	100	--	100
1,2-Dibromoethane	ND	RL-05	ug/l	50	--	100
1,3-Dichloropropane	ND	RL-05	ug/l	50	--	100
1,1,1,2-Tetrachloroethane	ND	RL-05	ug/l	100	--	100
Bromobenzene	ND	RL-05	ug/l	100	--	100
n-Butylbenzene	ND	RL-05	ug/l	100	--	100
sec-Butylbenzene	ND	RL-05	ug/l	100	--	100
tert-Butylbenzene	ND	RL-05	ug/l	100	--	100
o-Chlorotoluene	ND	RL-05	ug/l	100	--	100
p-Chlorotoluene	ND	RL-05	ug/l	100	--	100
1,2-Dibromo-3-chloropropane	ND	R-05, RL-05	ug/l	200	--	100
Hexachlorobutadiene	ND	RL-05	ug/l	60	--	100
Isopropylbenzene	ND	RL-05	ug/l	100	--	100
p-Isopropyltoluene	ND	RL-05	ug/l	100	--	100
Naphthalene	ND	RL-05	ug/l	200	--	100
n-Propylbenzene	ND	RL-05	ug/l	100	--	100
1,2,3-Trichlorobenzene	ND	RL-05	ug/l	200	--	100
1,2,4-Trichlorobenzene	ND	RL-05	ug/l	100	--	100

Project Name: 50 TUFTS STREET **Lab Number:** L2572383

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-04 Date Collected: 11/13/25 09:40

Client ID: 045163-MW401D Date Received: 11/13/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,3,5-Trimethylbenzene	ND	RL-05	ug/l	100	--	100
1,2,4-Trimethylbenzene	ND	RL-05	ug/l	100	--	100
Diethyl Ether	ND	RL-05	ug/l	200	--	100
Diisopropyl Ether	ND	RL-05	ug/l	50	--	100
Tert-Butyl Ethyl Ether	ND	RL-05	ug/l	50	--	100
Tert-Amyl Methyl Ether	ND	RL-05	ug/l	50	--	100
1,4-Dioxane	ND	RL-05	ug/l	5000	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107	RL-05	70-130
Toluene-d8	94	RL-05	70-130
4-Bromofluorobenzene	89	RL-05	70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2572383
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-05
Client ID: 045163-MW401S
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/13/25 10:00
Date Received: 11/13/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/18/25 17:29
Analyst: MFF
Extraction Method: EPA 5030B
Extraction Date: 11/18/25 08:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07, RL-05	ug/l	25	--	5
1,1-Dichloroethane	7.8	RL-05	ug/l	5.0	--	5
Chloroform	ND	RL-05	ug/l	10	--	5
Carbon tetrachloride	ND	RL-05	ug/l	5.0	--	5
1,2-Dichloropropane	ND	RL-05	ug/l	5.0	--	5
Chlorodibromomethane	ND	RL-05	ug/l	2.5	--	5
1,1,2-Trichloroethane	ND	RL-05	ug/l	5.0	--	5
Tetrachloroethene	440	RL-05	ug/l	5.0	--	5
Chlorobenzene	ND	RL-05	ug/l	5.0	--	5
Trichlorofluoromethane	ND	RL-05	ug/l	10	--	5
1,2-Dichloroethane	ND	RL-05	ug/l	5.0	--	5
1,1,1-Trichloroethane	ND	RL-05	ug/l	5.0	--	5
Bromodichloromethane	ND	RL-05	ug/l	5.0	--	5
trans-1,3-Dichloropropene	ND	RL-05	ug/l	2.0	--	5
cis-1,3-Dichloropropene	ND	RL-05	ug/l	2.0	--	5
1,1-Dichloropropene	ND	RL-05	ug/l	2.5	--	5
Bromoform	ND	RL-05	ug/l	5.0	--	5
1,1,2,2-Tetrachloroethane	ND	RL-05	ug/l	2.5	--	5
Benzene	ND	RL-05	ug/l	5.0	--	5
Toluene	ND	RL-05	ug/l	5.0	--	5
Ethylbenzene	ND	RL-05	ug/l	5.0	--	5
Chloromethane	ND	RL-05	ug/l	10	--	5
Bromomethane	ND	RL-05	ug/l	10	--	5
Vinyl chloride	ND	RL-05	ug/l	10	--	5
Chloroethane	ND	RL-05	ug/l	10	--	5
1,1-Dichloroethene	ND	RL-05	ug/l	5.0	--	5
trans-1,2-Dichloroethene	ND	RL-05	ug/l	5.0	--	5

Project Name: 50 TUFTS STREET **Lab Number:** L2572383

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-05 Date Collected: 11/13/25 10:00

Client ID: 045163-MW401S Date Received: 11/13/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Trichloroethene	66	RL-05	ug/l	5.0	--	5
1,2-Dichlorobenzene	ND	RL-05	ug/l	5.0	--	5
1,3-Dichlorobenzene	ND	RL-05	ug/l	5.0	--	5
1,4-Dichlorobenzene	ND	RL-05	ug/l	5.0	--	5
Methyl tert-butyl ether	ND	RL-05	ug/l	5.0	--	5
p/m-Xylene	ND	RL-05	ug/l	10	--	5
o-Xylene	ND	RL-05	ug/l	5.0	--	5
cis-1,2-Dichloroethene	14	RL-05	ug/l	5.0	--	5
Dibromomethane	ND	RL-05	ug/l	5.0	--	5
1,2,3-Trichloropropane	ND	RL-05	ug/l	10	--	5
Styrene	ND	RL-05	ug/l	5.0	--	5
Dichlorodifluoromethane	ND	RL-05	ug/l	10	--	5
Acetone	ND	RL-05	ug/l	50	--	5
Carbon disulfide	ND	RL-07, RL-05	ug/l	25	--	5
2-Butanone	ND	RL-05	ug/l	50	--	5
4-Methyl-2-pentanone	ND	RL-05	ug/l	50	--	5
2-Hexanone	ND	RL-05	ug/l	50	--	5
Bromochloromethane	ND	RL-05	ug/l	5.0	--	5
Tetrahydrofuran	ND	V-05, RL-05	ug/l	10	--	5
2,2-Dichloropropane	ND	RL-05	ug/l	5.0	--	5
1,2-Dibromoethane	ND	RL-05	ug/l	2.5	--	5
1,3-Dichloropropane	ND	RL-05	ug/l	2.5	--	5
1,1,1,2-Tetrachloroethane	ND	RL-05	ug/l	5.0	--	5
Bromobenzene	ND	RL-05	ug/l	5.0	--	5
n-Butylbenzene	ND	RL-05	ug/l	5.0	--	5
sec-Butylbenzene	ND	RL-05	ug/l	5.0	--	5
tert-Butylbenzene	ND	RL-05	ug/l	5.0	--	5
o-Chlorotoluene	ND	RL-05	ug/l	5.0	--	5
p-Chlorotoluene	ND	RL-05	ug/l	5.0	--	5
1,2-Dibromo-3-chloropropane	ND	R-05, RL-05	ug/l	10	--	5
Hexachlorobutadiene	ND	RL-05	ug/l	3.0	--	5
Isopropylbenzene	ND	RL-05	ug/l	5.0	--	5
p-Isopropyltoluene	ND	RL-05	ug/l	5.0	--	5
Naphthalene	ND	RL-05	ug/l	10	--	5
n-Propylbenzene	ND	RL-05	ug/l	5.0	--	5
1,2,3-Trichlorobenzene	ND	RL-05	ug/l	10	--	5

Project Name: 50 TUFTS STREET **Lab Number:** L2572383

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-05 Date Collected: 11/13/25 10:00

Client ID: 045163-MW401S Date Received: 11/13/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trichlorobenzene	ND	RL-05	ug/l	5.0	--	5
1,3,5-Trimethylbenzene	ND	RL-05	ug/l	5.0	--	5
1,2,4-Trimethylbenzene	ND	RL-05	ug/l	5.0	--	5
Diethyl Ether	ND	RL-05	ug/l	10	--	5
Diisopropyl Ether	ND	RL-05	ug/l	2.5	--	5
Tert-Butyl Ethyl Ether	ND	RL-05	ug/l	2.5	--	5
Tert-Amyl Methyl Ether	ND	RL-05	ug/l	2.5	--	5
1,4-Dioxane	ND	RL-05	ug/l	250	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109	RL-05	70-130
Toluene-d8	96	RL-05	70-130
4-Bromofluorobenzene	95	RL-05	70-130

January 7, 2026
Project No. 045163

Ms. Kimberly Wells
City of Somerville Clerk
93 Highland Avenue, 1st Floor
Somerville, MA 02143

Re: Groundwater Sampling
Certain "Public Ways"
Somerville, Massachusetts

Dear Ms. Wells:

Thank you for permitting GEI to conduct groundwater sampling on certain public ways in Somerville, Massachusetts. We are providing you with a "Notice of Environmental Sampling Form (BWSC-123)," as required by the Massachusetts Department of Environmental Protection (MassDEP), following groundwater sampling in January 2026.

Thank you for your continued assistance. Please contact me at 781-721-4012 or igladstone@geiconsultants.com if you have any questions.

Sincerely,

GEI Consultants, Inc

Ileen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President

Christopher Coner, CHMM
Project Manager

DJM/
B:\Private\04516\19.0 Reports in Progress\19.84 Ph V SR 29 RMR 44\App B - Property Owner Notification Letters\Groundwater\7. City NOS (Jan 2026 additional sampling)\City 1-2026 GW NOS Ltr.docx

cc: Catherine Malagrida, UniFirst Corporation
Jill Lathan, City of Somerville
MassDEP NERO (as part of Status Report)

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: Ms. Kimberly Wells, City of Somerville Clerk

2. Street Address: 93 Highland Avenue, 1st Floor

City/Town: Somerville, MA Zip Code: 02143

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☐ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☐ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: Somerville City Streets

City/Town: Somerville, MA Zip Code: 02145

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action
☐ Release Abatement Measure
☐ Utility-related Abatement Measure
☐ Phase I Initial Site Investigation
☐ Phase II Comprehensive Site Assessment
☐ Phase III Feasibility Evaluation
☐ Phase IV Remedy Implementation Plan
☑ Phase V/Remedy Operation Status
☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☐ residential ☐ commercial ☐ industrial ☐ school/playground ☑ Other City Streets (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Semi-Annual Groundwater Sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

January 29, 2026
Project No. 04516-3

Ms. Kimberly Wells
City Clerk
93 Highland Avenue, 1st Floor
Somerville, MA 02143

Re: Groundwater Sampling Results
Certain "Public Ways", Somerville, Massachusetts
MassDEP RTN 3-23246

Dear Ms. Wells:

On behalf of UniFirst Corporation, GEI Consultants, Inc. is providing results for groundwater samples collected on January 7, 2026, from groundwater monitoring wells located on municipal property. The sampling was conducted as part of our investigation related to the site at 50 Tufts Street in Somerville, Massachusetts. We collected groundwater samples from two shallow monitoring wells (MW122 and MW407).

Groundwater samples were submitted for chemical testing for volatile organic compounds (VOCs). We have attached a summary table of the chemicals detected in the groundwater samples along with the previous sampling results, the laboratory data sheets for the recent sampling, and a figure showing the sampling locations. Thank you for permitting GEI to conduct groundwater on certain public ways in Somerville, Massachusetts.

Individuals and public officials may request additional public involvement activities under the Massachusetts Contingency Plan (MCP; 310 CMR 40.1403[10] and 40.1404). The property owner may also request additional documentation, such as that listed at 310 CMR 40.0017(3), associated with the above-referenced samples. We will provide additional documentation within 30 days of our receipt of such a request.

We appreciate your continued cooperation throughout the sampling process. If you have any immediate questions regarding the water testing results, please do not hesitate to contact me at 781.721.4012 or igladstone@geiconsultants.com.

Sincerely,

GEI CONSULTANTS, INC.

Ileen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President

Christopher O. Coner, CHMM
Project Manager

Enclosures

cc: Catherine Malagrida, UniFirst Corporation
Jill Lathan, City of Somerville
MassDEP-NERO (as part of Status Report)

JP/DJM:jam
\\geiconsultants.com\data\Data_Storage\Private\04516\2.0 Correspondence\2.12 Subsurface\2.12.2 Groundwater Evaluation\2026\2026.01 Sampling\City\GW Results\City 2026 January GW Results Ltr.docx

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

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City/Town: Somerville Zip Code: 02145-4129

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2. Street Address: 93 Highland Avenue, 1st Floor

City/Town: Somerville, MA Zip Code: 02143

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☑ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☑ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: Somerville City Streets

City/Town: Somerville, MA Zip Code: 02145

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☑ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☐ residential ☐ commercial ☐ industrial ☐ school/playground ☑ Other City Streets (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Semi-Annual Groundwater Sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

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THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

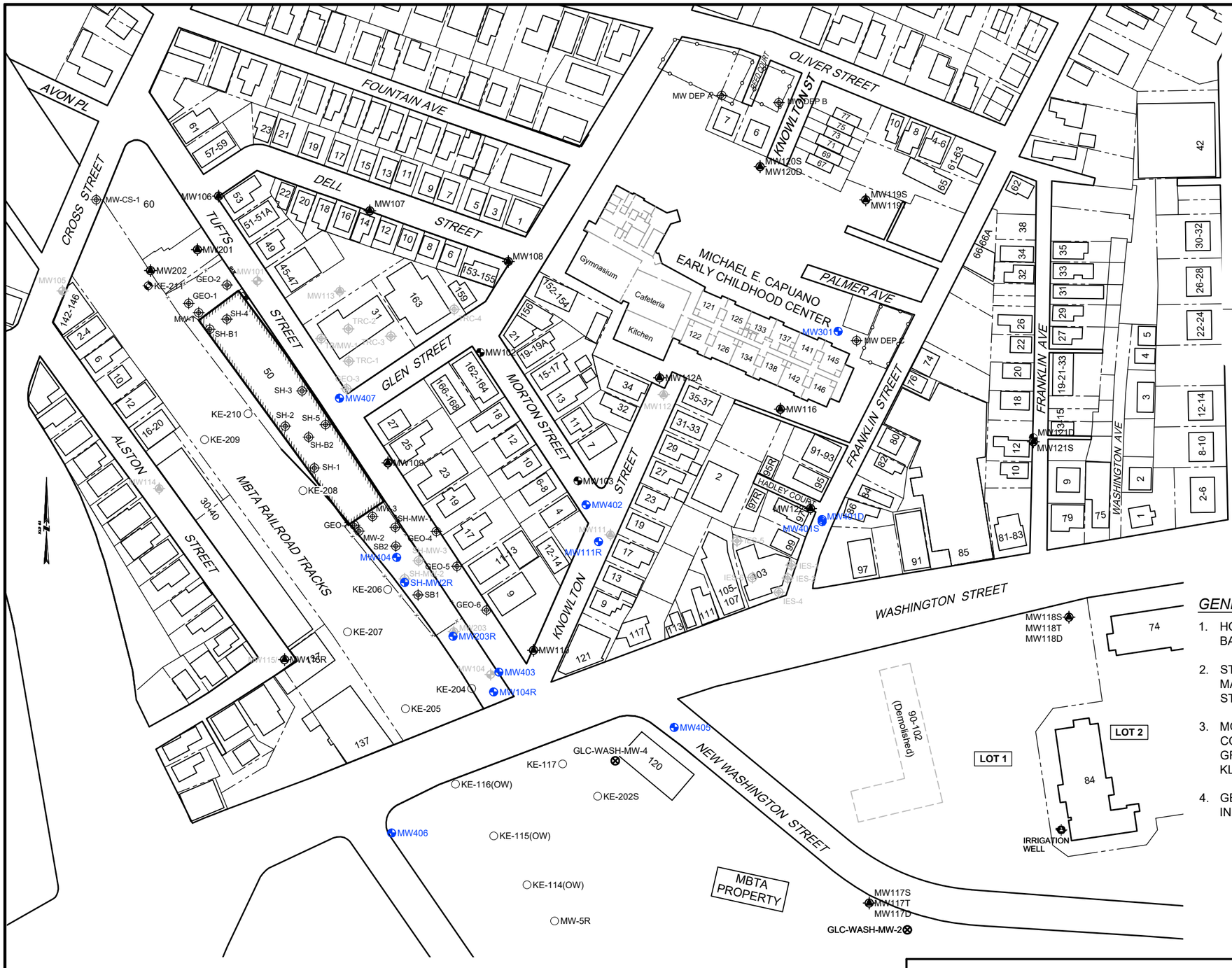
When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



LEGEND:

- MONITORING WELL INSTALLED BY TRC, 2014
- BORING BY KLEINFELDER, MARCH 2014 AND APRIL 2014
- MONITORING WELL BY KLEINFELDER, SEPTEMBER 2012, MARCH 2014, AND APRIL 2014
- MONITORING WELL WITH SOIL VAPOR SAMPLE PORT INSTALLED BY GEI, JANUARY 2007 - JANUARY 2008
- MONITORING WELL INSTALLED BY GEI, MAY 2006
- MONITORING WELL INSTALLED BY GEI, MAY 2022, MARCH 2024, OCTOBER 2024, & JANUARY, OCTOBER, & DECEMBER 2025
- PREVIOUSLY INSTALLED IRRIGATION WELL
- GLXC WELL INSTALLED AUGUST 2020
- WELLS IN GRAY HAVE BEEN DESTROYED OR DECOMMISSIONED
- CHAIN LINK FENCE
- 138 ROOM NUMBER AT CAPUANO SCHOOL
- BOUNDARY OF COMMUNITY GARDENS
- 84 STREET ADDRESS

MBTA = MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

GENERAL NOTES:

1. HORIZONTAL CONTROL FOR THIS PLAN WAS ESTABLISHED BY GPS AND IS BASED ON THE NORTH AMERICAN DATUM OF 1983.
2. STREET AND PROPERTY LINES BASED ON SOMERVILLE ASSESSORS' MAPS AND ARE BEST FIT RELATIVE TO THE LOCATION OF THE 50 TUFTS ST. BUILDING.
3. MONITORING WELL LOCATIONS AND ELEVATIONS, AND CAPUANO CENTER COMMUNITY GARDEN LOCATIONS WERE ESTABLISHED BY ON THE GROUND SURVEYS BY BSC GROUP, INC. OR INFORMATION PROVIDED BY KLEINFELDER.
4. GEI OBSERVED DECOMMISSIONING OF SH-MW1 AND SH-1 THROUGH SH-5 IN 2007.

50 Tufts Street
Somerville, Massachusetts

UniFirst Corporation
Wilmington, Massachusetts

GEI Consultants

MONITORING WELL LOCATIONS

Project 045163 | January 2026 | Fig. 1

B:\Private\04516\#Drafting\04516-3\Phase V SRs & RMRs\045163 PhV SR DSB rev 1

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	MW122 4 to 16 1/30/08 GEI	MW122 4 to 16 4/17/08 GEI	MW122 4 to 16 7/14/08 GEI	MW122 4 to 16 10/22/08 GEI	MW122 4 to 16 1/12/09 GEI	MW122 4 to 16 4/13/09 GEI	MW122 4 to 16 7/15/09 GEI	MW122 4 to 16 10/14/09 GEI	MW122 4 to 16 4/12/10 GEI	MW122 4 to 16 10/27/10 GEI	MW122 4 to 16 4/20/11 GEI	MW122 4 to 16 11/16/11 GEI	MW122 4 to 16 4/17/12 GEI	MW122 4 to 16 11/12/12 GEI	MW122 4 to 16 4/23/13 GEI	MW122 4 to 16 11/18/13 GEI	MW122 4 to 16 4/30/14 GEI	MW122 4 to 16 11/18/14 GEI	MW122 4 to 16 4/2/15 GEI	MW122 4 to 16 11/19/15 GEI	MW122 4 to 16 4/28/16 GEI	MW122 4 to 16 11/21/16 GEI	MW122 4 to 16 4/17/2017 GEI	MW122 4 to 16 11/8/2017 GEI	MW122 4 to 16 4/3/2018 GEI
Sample Location:					MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122
Sample Name:					MW122 4 to 16 1/30/08 GEI	MW122 4 to 16 4/17/08 GEI	MW122 4 to 16 7/14/08 GEI	MW122 4 to 16 10/22/08 GEI	MW122 4 to 16 1/12/09 GEI	MW122 4 to 16 4/13/09 GEI	MW122 4 to 16 7/15/09 GEI	MW122 4 to 16 10/14/09 GEI	MW122 4 to 16 4/12/10 GEI	MW122 4 to 16 10/27/10 GEI	MW122 4 to 16 4/20/11 GEI	MW122 4 to 16 11/16/11 GEI	MW122 4 to 16 4/17/12 GEI	MW122 4 to 16 11/12/12 GEI	MW122 4 to 16 4/23/13 GEI	MW122 4 to 16 11/18/13 GEI	MW122 4 to 16 4/30/14 GEI	MW122 4 to 16 11/18/14 GEI	MW122 4 to 16 4/2/15 GEI	MW122 4 to 16 11/19/15 GEI	MW122 4 to 16 4/28/16 GEI	MW122 4 to 16 11/21/16 GEI	MW122 4 to 16 4/17/2017 GEI	MW122 4 to 16 11/8/2017 GEI	MW122 4 to 16 4/3/2018 GEI
Well Screen Interval (ft bgs):					4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16
Sample Date:					1/30/08	4/17/08	7/14/08	10/22/08	1/12/09	4/13/09	7/15/09	10/14/09	4/12/10	10/27/10	4/20/11	11/16/11	4/17/12	11/12/12	4/23/13	11/18/13	4/30/14	11/18/14	4/2/15	11/19/15	4/28/16	11/21/16	4/17/2017	11/8/2017	4/3/2018
Collected By:					GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																											
Acetone			50000	50000	< 5.0 J+	9.6 J	11.1	7.2	5.7	< 5.0	< 5.0 F-	< 10	3.8 J+	< 5.0	17.8	< 5.0	< 5.0	< 25 K-	< 50	< 50 K-	< 20	< 20	< 20	< 10	9.4 J	< 40	< 50	< 10	<50
Acrylonitrile			NS	NS	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT						
Benzene			1000	10000	< 0.50	< 1.0	0.46 J	< 0.50	< 0.50	< 0.50	0.23 J	< 1.0	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 2.5	< 2.5	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 2.0	< 2.5	< 0.50	<2.5
Bromobenzene			NS	NS	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10						
Bromochloromethane			NS	NS	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10						
Bromodichloromethane			6	50000	< 1.0	1.1 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 4.0	< 5.0	< 1.0	<5.0
Bromoform			700	50000	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0						
Bromomethane			7	800	< 2.0	< 4.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0 F-	< 4.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0 G	< 4.0 G						
2-Butanone (MEK)			50000	50000	< 5.0 J+	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25 K-	< 25	< 25	< 10	< 10	< 10	17.3 J	< 10	< 40	< 50	< 10	<50
n-Butylbenzene			NS	NS	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10						
sec-Butylbenzene			NS	NS	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10						
tert-Butylbenzene			NS	NS	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10						
Carbon disulfide			NS	NS	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 F-	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 5.0	< 20	< 10	< 2.0	<10
Carbon tetrachloride			2	5000	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 4.0	< 5.0	< 1.0	<5.0
Chlorobenzene			200	1000	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 4.0	< 5.0	< 1.0	<5.0
Chloroethane			NS	NS	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 F-	< 4.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0 G	< 4.0	< 4.0	< 2.0	< 8.0	< 5.0	< 1.0	<5.0
Chloroform			50	20000	< 1.0	< 2.0	< 1.0	0.61 J	< 1.0	< 1.0	< 1.0	0.75 J	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 4.0	< 5.0	< 1.0	<5.0
Chloromethane			NS	NS	< 2.0	< 4.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0 F-	< 4.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0 G	< 4.0	< 4.0	< 2.0	< 8.0	< 5.0	< 1.0	<5.0
2-Chlorotoluene			NS	NS	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10					
4-Chlorotoluene			NS	NS	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10					
1,2-Dibromo-3-chloropropane			NS	NS	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10					
Dibromochloromethane			20	50000	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0					
1,2-Dibromoethane			2	50000	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0						
Dibromomethane (Methylene bromide)			NS	NS	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10						
1,2-Dichlorobenzene			8000	2000	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0					
1,3-Dichlorobenzene			6000	50000	< 1.0	< 2.0	< 1.0	< 1.0	0.60 J	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0					
1,4-Dichlorobenzene			60	8000	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 5.0	< 1.0	<5.0
Dichlorodifluoromethane			NS	NS	< 2.0	< 4.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0 F-	< 4.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0 G K-	< 4.0 G K-							
1,1-Dichloroethane			2000	20000	19.3	30.4 C+	10.1	15.0	16.0	25.8	21.2	20.8	29.6	20.3	19.1	15.2	17.2	14.4	11.1	12.7	15.9	12.8	15.0	6.8	18.3	20.5	30.9	14.8	22.7
1,2-Dichloroethane			5	20000	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 4.0	< 5.0	< 1.0	<5.0
1,1-Dichloroethylene			80	30000	4.0	9.0 C+	1.4	4.4	3.4	6.1	5.3 F-	6.6	7.3	4.6	8.3	4.1	6.4	4.7 J	4.1 J	4.4 J	5.1	3.8 K+	4.5	1.6 J	5.8	5.6	7.7	3.9	8.1
cis-1,2-Dichloroethylene			20	50000	60.6	70.7 C+	34.0	62.5	91.5	61.9	39.4	109.0	58.6	117	45.5	66.4	61.5	84.7	56.2	67.2	68.0	69.3	43.8	75.7	61.3	68.5	67.2	50	64.4
trans-1,2-Dichloroethylene			90	50000	0.87 J	< 2.0	< 1.0	< 1.0	< 1.0	0.93 J	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0 K+	< 2.0	< 2.0	< 1.0	< 4.0	< 5.0	< 1.0	<5.0
1,2-Dichloropropane			3	50000	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0	< 8.0	< 5.0	< 1.0	<5.0
1,3-Dichloropropane					< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10						
2,2-Dichloropropane					< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10						
1,1-Dichloropropene					< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10						
cis-1,3-Dichloropropene			10	200	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 2.5	< 2.5	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0						
trans-1,3-Dichloropropene			10	200	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 2.5	< 2.5	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0						
Diethyl ether (Ethyl ether)					< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10						
Di-Isopropyl ether					< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0						
1,4-Dioxane			5000	50000	< 25	< 50	< 25	< 25	< 25	< 25	< 25	< 50	< 25	< 25	< 50	< 25	< 25 K-	< 130	< 260	< 260	< 50 K-	< 50 K-	< 50	< 50	< 50	< 200	< 630	< 130	<630
Ethylbenzene			20000	5000	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 4.0	< 5.0	< 1.0	<5.0
Hexachlorobutadiene			50	3000	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 20	<10			
2-Hexanone			NS	NS	< 5.0 J+	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25 K-	< 10	< 10	< 10	< 10	< 10	< 40	< 25	< 5.0	<25
Isopropyl benzene			NS	NS	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10						
4-Isopropyltoluene			NS	NS	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 2.0	<10
Methyl tert-butyl ether			50000	50000	3.3	3.9 C+	1.9	5.6	2.5	3.2	3.3	2.9	2.3	2.7	2.9	2.1	2.7	2.2 J	< 5.0 K-	< 5.0	1.5 J	2.6 K+	1.8	1.0 J	1.2	< 4.0	3.7	1.1	<5.0
4-Methyl-2-pentanone (MIBK)			50000	50000	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25 F- K-	< 25	< 25	< 10	< 10	< 10							
Methylene chloride			2000	50000	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	1.1 J	< 2.0	39.4	< 10	< 2.0	<10
Naphthalene			700	20000	< 5.0	< 10	2.6 J	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10	< 5.0	< 20	< 25	< 5.0	<25
n-Propylbenzene			NS	NS	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10						
Styrene			100	6000	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10	< 10						
Tert-amyl methyl ether			NS	NS	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0	< 8.0	< 10	< 2.0	<10
Tert-butyl ethyl ether			NS	NS	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 10	< 10	< 10	< 4.0	< 4.0	< 4.0	< 4.0						
1,1,1,2-Tetrachloroethane			10	50000	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	<2.0	<2.0	< 1.0	< 4.0	< 5.0	< 1.0	<5.0
1,1,2,2-Tetrachloroethane			9	50000	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0							
Tetrachloroethylene (PCE)			20	30000	477	691 C+	122	352 G	312	499 G	677	518	856	532	656	581	1000	811	938	726	592	499	784	326	734	684	910	579	959
Tetrahydrofuran			NS	NS	< 10	< 20	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 10	< 20	< 10	< 10	< 50 F- K-	< 50	< 50	< 20 G	< 20	< 20	< 20	< 10	< 40	< 50	< 10	<50
Toluene			50000	40000	0.48 J	< 2.0	2.8	3.7	0.64 J	2.4	1.6	< 4.0	6.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	6	< 2.0	0.79 J	0.72	< 2.0	< 1.0	< 4.0	< 5.0	20.7	<5.0
1,2,3-Trichlorobenzene			NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10							
1,2,4-Trichlorobenzene			200	50000	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10							
1,1,1-Trichloroethane (TCA)			4000	20000	1.4	3.4 C+	0.63 J	5.1	1.1	1.7	1.7	< 2.0	1.5	< 1.0	7.5	1.4	2.2	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	2.0	< 2.0	0.92 J	< 4.0	< 5.0	< 1.0	<5.0
1,1,2-Trichloroethane			900	50000	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 4.0	< 5.0	< 1.0	<5.0
Trichloroethylene (TCE)			5	5000	177	106 C+	27.0	56.9	59.6	91.7	90.2	81.1	119.0	82.1	73.1	79.0	103	88.0	93.4	76.0	98.9	58.9	82.9	44.9	98.3	87.1	102.0	63.3	110.0
Trichlorofluoromethane			NS	NS	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 F-	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0 G K-	< 2.0 G K-							
1,2,3-Trichloropropane			NS	NS	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10							
1,2,4-Trimethylbenzene			NS	NS	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10							
1,3,5-Trimethylbenzene			NS	NS	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 25	< 25	< 25	< 10	< 10	< 10							
Vinyl chloride			2	50000	0.32 J	< 2.0	< 1.0	< 1.0	1.2	< 1.0	< 1.0 F-	4.3	< 1.0	3.6	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0 K-	1.8	1.2	0.73 J	< 4.0	< 5.0	1.3	<5.0
m,p-Xylene			3000	5000	< 1.0	< 2.0	0.92 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 4.0	< 5.0	< 1.0	<5.0
o-Xylene			3000	5000	< 1.0	< 2.0	0.67 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 4.0	< 5.0	< 1.0	<5.0
Total Xylene			3000	5000	< 1.0	< 2.0	1.6 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 4.0	< 5.0	< 1.0	<5.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW407
Sample Name:					MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW-407
Well Screen Interval (ft bgs):					4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4.45-14.45
Sample Date:					11/15/2018	4/16/2019	11/22/2019	4/16/2020	11/18/2020	4/13/2021	11/30/2021	4/13/2022	11/29/2022	4/17/2023	11/7/2023	4/4/2024	11/14/2024	4/24/2025	11/12/2025	1/7/2026	1/7/26
Collected By:					GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Volatile Organic Compounds (VOCs)	8260	µg/l																			
Acetone			50000	50000	<50	<20	<50	<50	<50	<25	<100	<100	<50	<50	<5.0	<10	< 50	<50	<50	< 20	12
Acrylonitrile			NS	NS									NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene			1000	10000	<2.5	<1.0	<2.5	<5.0	<5.0	<2.5	<10	<10	<5	<5	<0.50	<1	< 5	<5.0	<5.0	< 2.0	1.1
Bromobenzene			NS	NS									<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	< 1.0
Bromochloromethane			NS	NS									<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	< 1.0
Bromodichloromethane			6	50000	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	< 1.0
Bromoform			700	50000									<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	< 1.0
Bromomethane			7	800									<20	<20	<2.0	<4.0	< 20	<20	<20	< 4.0	< 2.0
2-Butanone (MEK)			50000	50000	<50	<20	<50	<50	<50	<50	<100	<100	<50	<50	<5.0	<10	< 50	<50	<50	< 20	< 10
n-Butylbenzene			NS	NS									<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	< 1.0
sec-Butylbenzene			NS	NS									<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	< 1.0
tert-Butylbenzene			NS	NS									<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	< 1.0
Carbon disulfide			NS	NS	<10	<4.0	<10	<20	<20	<5	<40	<40	<20	<20	<2.0	<4.0	< 20	<20	<20	< 10	< 5.0
Carbon tetrachloride			2	5000	<5.0	<2.0	<5.0	<10	<10	<5	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	< 1.0
Chlorobenzene			200	1000	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	< 1.0
Chloroethane			NS	NS	<5.0	<2.0	<5.0	<20	<20	<10	<40	<40	<20	<20	<2.0	<4.0	< 20	<20	<20	< 4.0	< 2.0
Chloroform			50	20000	<5.0	<2.0	<5.0	<10	<10	<10	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 4.0	< 2.0
Chloromethane			NS	NS	<5.0	<2.0	<5.0	<20	<20	<10	<40	<40	<20	<20	<2.0	<4.0	< 20	<20	<20	< 4.0	< 2.0
2-Chlorotoluene			NS	NS									<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	< 1.0
4-Chlorotoluene			NS	NS									<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	< 1.0
1,2-Dibromo-3-chloropropane			NS	NS									<20	<20	<2.0	<4.0	< 20	<20	<20	< 4.0	< 2.0
Dibromochloromethane			20	50000									<10	<10	<1.0	<2.0	< 10	<10	<10	< 1.0	< 0.50
1,2-Dibromoethane			2	50000									<20	<20	<2.0	<4.0	< 20	<20	<20	< 1.0	< 0.50
Dibromomethane (Methylene bromide)			NS	NS									<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	< 1.0
1,2-Dichlorobenzene			8000	2000									<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	< 1.0
1,3-Dichlorobenzene			6000	50000									<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	< 1.0
1,4-Dichlorobenzene			60	8000	<5.0	<2.0	<5.0	<10	<10	<5	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	< 1.0
Dichlorodifluoromethane			NS	NS									<20	<20	<2.0	<4.0	< 20	<20	<20	< 4.0	< 2.0
1,1-Dichloroethane			2000	20000	17.0	18.8	16.4	29	48	44	46	35	24	18	16	3.1	12	<10	<10	4.5	< 1.0
1,2-Dichloroethane			5	20000	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	< 1.0
1,1-Dichloroethylene			80	30000	7.3	6.1	6.9	<10	12	6.9	<20	<20	<10	<10	7.7	<2.0	< 10	<10	<10	< 2.0	1.6
cis-1,2-Dichloroethylene			20	50000	71.0	69.1	95.8	150	150	110	130	130	180	110	130	22	140	76	410	130	< 1.0
trans-1,2-Dichloroethylene			90	50000	<5.0	<2.0	<5.0	<10	<10	<10	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	< 1.0
1,2-Dichloropropane			3	50000	<5.0	<2.0	<5.0	<10	<10	<10	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	< 1.0
1,3-Dichloropropane													<20	<20	<2.0	<4.0	< 20	<20	<20	< 1.0	< 0.50
2,2-Dichloropropane													<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	< 1.0
1,1-Dichloropropene													<20	<20	<2.0	<4.0	< 20	<20	<20	< 1.0	< 0.50
cis-1,3-Dichloropropene			10	200									<4	<4	<0.40	<0.8	< 4.0	<4.0	<4.0	< 0.80	< 0.40
trans-1,3-Dichloropropene			10	200									<4	<4	<0.40	<0.8	< 4.0	<4.0	<4.0	< 0.80	< 0.40
Diethyl ether (Ethyl ether)													<20	<20	<2.0	<4.0	< 20	<20	<20	< 4.0	< 2.0
Di-Isopropyl ether													<20	<20	<2.0	<4.0	< 20	<20	<20	< 1.0	< 0.50
1,4-Dioxane			5000	50000	<630	<250	<630	<2500	<2500	<1200	<5000	<5000	<2500	<2500	<250	<500	< 2500	<2500	<2500	< 100	< 50
Ethylbenzene			20000	5000	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	14	< 1.0
Hexachlorobutadiene			50	3000									<6	<6	<0.60	<1.2	< 6.0	<6.0	<6.0	< 1.2	< 0.60
2-Hexanone			NS	NS	<25	<2.0	<25	<50	<50	<25	<100	<100	<50	<50	<5.0	<10	< 50	<50	<50	< 20	< 10
Isopropyl benzene			NS	NS									<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	< 1.0
4-Isopropyltoluene			NS	NS	<10	<4.0	<10	<20	<20	<20	<40	<40	<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	< 1.0
Methyl tert-butyl ether			50000	50000	<5.0	2.1	<5.0	<20	<20	<10	<40	<40	<20	<20	2.9	<4.0	< 20	<20	<20	2.5	< 1.0
4-Methyl-2-pentanone (MIBK)			50000	50000									<50	<50	<5.0	<10	< 50	<50	<50	< 20	< 10
Methylene chloride			2000	50000	<10	<4.0	<10	<20	<20	<20	<40	<40	<20	<20	<2.0	<4.0	< 20	<20	<20	< 4.0	< 2.0
Naphthalene			700	20000	<25	<10	<25	<20	<20	<10	<40	<40	<20	<20	<2.0	<4.0	< 20	<20	<20	< 4.0	< 2.0
n-Propylbenzene			NS	NS									<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	< 1.0
Styrene			100	6000									<10	<10	<1.0	<2.0	< 10	<10	5200	370	< 1.0
Tert-amyl methyl ether			NS	NS	<10	<4.0	<10	<20	<20	<10	<40	<40	<20	<20	<2.0	<4.0	< 20	<20	<20	< 1.0	< 0.50
Tert-butyl ethyl ether			NS	NS									<20	<20	<2.0	<4.0	< 20	<20	<20	< 1.0	< 0.50
1,1,1,2-Tetrachloroethane			10	50000	<5.0	<2.0	<5.0	<10	<10	<10	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	< 1.0
1,1,2,2-Tetrachloroethane			9	50000									<10	<10	<1.0	<2.0	< 10	<10	<10	< 1.0	< 0.50
Tetrachloroethylene (PCE)			20	30000	1150	1060	961	1200	1400	820	1600	1700	1200	1700	1600	170	1300	840	210	42	40
Tetrahydrofuran			NS	NS	<50	<2.0	<50	<20	<20	<10	<40	<40	<20	<20	<2.0	<4.0	< 20	<20	<20	< 4.0	< 2.0
Toluene			50000	40000	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 4.0	< 1.0
1,2,3-Trichlorobenzene			NS	NS									<20	<20	<2.0	<4.0	< 20	<20	<20	< 4.0	< 2.0
1,2,4-Trichlorobenzene			200	50000									<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	< 1.0
1,1,1-Trichloroethane (TCA)			4000	20000	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	< 1.0
1,1,2-Trichloroethane			900	50000	<5.0	<2.0	<5.0	<10	<10	<10	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	< 1.0
Trichloroethylene (TCE)			5	5000	122	121	131	140	170	130	220	210	160	170	200	41	150	100	<50	8.7	4.1
Trichlorofluoromethane			NS	NS									<20	<20	<2.0	<4.0	< 20	<20	<20	< 2.0	< 2.0
1,2,3-Trichloropropane			NS	NS									<20	<20	<2.0	<4.0	< 20	<20	<20	< 4.0	< 2.0
1,2,4-Trimethylbenzene			NS	NS									<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	< 1.0
1,3,5-Trimethylbenzene			NS	NS									<20	<20	<2.0	<4.0	< 20	<20	<20	<2.0	< 1.0
Vinyl chloride			2	50000	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20	<10	<10	1.6	<2.0	< 10	<10	<10	22	< 2.0
m,p-Xylene			3000	5000	<5.0	<2.0	<5.0	<20	<20	<10	<40	<40	<20	<20	<2.0	<4.0	< 20	<20	<20	< 4.0	< 2.0
o-Xylene			3000	5000	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	< 1.0
Total Xylene			3000	5000	<5.0	<2.0	<5.0	<10	<10	<5.0	<20	<20	<10	<10	<1.0	<2.0	< 10	<10	<10	< 2.0	< 1.0

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	Sample Location:	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122
					Sample Name:	MW122 4 to 16 1/30/08 GEI	MW122 4 to 16 4/17/08 GEI	MW122 4 to 16 7/14/08 GEI	MW122 4 to 16 10/22/08 GEI	MW122 4 to 16 1/12/09 GEI	MW122 4 to 16 4/13/09 GEI	MW122 4 to 16 7/15/09 GEI	MW122 4 to 16 10/14/09 GEI	MW122 4 to 16 4/12/10 GEI	MW122 4 to 16 10/27/10 GEI	MW122 4 to 16 4/20/11 GEI	MW122 4 to 16 11/16/11 GEI	MW122 4 to 16 4/17/12 GEI	MW122 4 to 16 11/12/12 GEI	MW122 4 to 16 4/23/13 GEI	MW122 4 to 16 11/18/13 GEI	MW122 4 to 16 4/30/14 GEI	MW122 4 to 16 11/18/14 GEI	MW122 4 to 16 4/2/15 GEI	MW122 4 to 16 11/19/15 GEI	MW122 4 to 16 4/28/16 GEI	MW122 4 to 16 11/21/16 GEI	MW122 4 to 16 4/17/2017 GEI	MW122 4 to 16 11/8/2017 GEI	MW122 4 to 16 4/3/2018 GEI
					Well Screen Interval (ft bgs):																									
					Sample Date:																									
					Collected By:																									
Total Petroleum Hydrocarbons (TPH)				mg/L		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT						
TPH-DRO																														
Metals (Total)	6010B	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																										
Iron			NS	NS																										
Manganese			NS	NS																										
Metals (Dissolved)	6010C	µg/l				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																										
Others						NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																										
Ethane	8015	µg/l	NS	NS																										
Ethylene	8015	µg/l	NS	NS																										
Alkalinity	E310.1	µg/l*	NS	NS																										
Chloride	E325.3	µg/l	NS	NS																										
Chlorine, Total Residual	E330.4	µg/l																												
Iron, Ferrous	3500FE B	µg/l	NS	NS																										
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																										
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																										
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																										
Sodium	6010C	µg/l	NS	NS																										
Sulfate	E375.4	µg/l	NS	NS																										
Sulfide	E376.1	µg/l																												
Surfactants	E425.1	µg/l	NS	NS																										
Total Organic Carbon	E415.1	µg/l	NS	NS																										

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms CaCO3 per liter

Qualifying Notes:
B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Chemical Testing Results - GEI Groundwater Sampling
50 Tufts Street
Somerville, Massachusetts

Analyte	Method	Units	Method 1 GW-2 Standard	Method 1 GW-3 Standard	MW122 4 to 16 11/15/2018 GEI	MW122 4 to 16 4/16/2019 GEI	MW122 4 to 16 11/22/2019 GEI	MW122 4 to 16 4/16/2020 GEI	MW122 4 to 16 11/18/2020 GEI	MW122 4 to 16 4/13/2021 GEI	MW122 4 to 16 11/30/2021 GEI	MW122 4 to 16 4/13/2022 GEI	MW122 4 to 16 11/29/2022 GEI	MW122 4 to 16 4/17/2023 GEI	MW122 4 to 16 11/7/2023 GEI	MW122 4 to 16 4/4/2024 GEI	MW122 4 to 16 11/14/2024 GEI	MW122 4 to 16 4/24/2025 GEI	MW122 4 to 16 11/12/2025 GEI	MW122 4 to 16 1/7/2026 GEI	MW407 MW-407 4.45-14.45 1/7/26 GEI
Sample Location:					MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW122	MW407
Sample Name:					MW122 4 to 16 11/15/2018 GEI	MW122 4 to 16 4/16/2019 GEI	MW122 4 to 16 11/22/2019 GEI	MW122 4 to 16 4/16/2020 GEI	MW122 4 to 16 11/18/2020 GEI	MW122 4 to 16 4/13/2021 GEI	MW122 4 to 16 11/30/2021 GEI	MW122 4 to 16 4/13/2022 GEI	MW122 4 to 16 11/29/2022 GEI	MW122 4 to 16 4/17/2023 GEI	MW122 4 to 16 11/7/2023 GEI	MW122 4 to 16 4/4/2024 GEI	MW122 4 to 16 11/14/2024 GEI	MW122 4 to 16 4/24/2025 GEI	MW122 4 to 16 11/12/2025 GEI	MW122 4 to 16 1/7/2026 GEI	MW-407 4.45-14.45 1/7/26 GEI
Well Screen Interval (ft bgs):					4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4 to 16	4.45-14.45
Sample Date:					11/15/2018	4/16/2019	11/22/2019	4/16/2020	11/18/2020	4/13/2021	11/30/2021	4/13/2022	11/29/2022	4/17/2023	11/7/2023	4/4/2024	11/14/2024	4/24/2025	11/12/2025	1/7/2026	1/7/26
Collected By:					GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Total Petroleum Hydrocarbons (TPH)				mg/L													NT	NT	NT	NT	NT
TPH-DRO																					
Metals (Total)	6010B	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic			NS	900																	
Iron			NS	NS																	
Manganese			NS	NS																	
Metals (Dissolved)	6010C	µg/l			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NS	NS																	
Others					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l	NS	NS																	
Ethane	8015	µg/l	NS	NS																	
Ethylene	8015	µg/l	NS	NS																	
Alkalinity	E310.1	µg/l*	NS	NS																	
Chloride	E325.3	µg/l	NS	NS																	
Chlorine, Total Residual	E330.4	µg/l																			
Iron, Ferrous	3500FE B	µg/l	NS	NS																	
Nitrate & Nitrite as N	E353.2	µg/l	NS	NS																	
Nitrogen, Nitrate	E353.2	µg/l	NS	NS																	
Nitrogen, Nitrite	E354.1	µg/l	NS	NS																	
Sodium	6010C	µg/l	NS	NS																	
Sulfate	E375.4	µg/l	NS	NS																	
Sulfide	E376.1	µg/l																			
Surfactants	E425.1	µg/l	NS	NS																	
Total Organic Carbon	E415.1	µg/l	NS	NS																	

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.
8. * = micrograms $CaCO_3$ per liter

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2601000
Report Date: 01/14/26

SAMPLE RESULTS

Lab ID: L2601000-01
Client ID: 045163-MW122
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 01/07/26 09:50
Date Received: 01/08/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 01/12/26 23:57
Analyst: LBD
Extraction Method: EPA 5030B
Extraction Date: 01/09/26 10:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-05	ug/l	4.0	--	2
1,1-Dichloroethane	4.5	RL-05	ug/l	2.0	--	2
Chloroform	ND	RL-05	ug/l	4.0	--	2
Carbon tetrachloride	ND	RL-05	ug/l	2.0	--	2
1,2-Dichloropropane	ND	RL-05	ug/l	2.0	--	2
Chlorodibromomethane	ND	RL-05	ug/l	1.0	--	2
1,1,2-Trichloroethane	ND	RL-05	ug/l	2.0	--	2
Tetrachloroethene	42	RL-05	ug/l	2.0	--	2
Chlorobenzene	ND	RL-05	ug/l	2.0	--	2
Trichlorofluoromethane	ND	RL-05	ug/l	4.0	--	2
1,2-Dichloroethane	ND	RL-05	ug/l	2.0	--	2
1,1,1-Trichloroethane	ND	RL-05	ug/l	2.0	--	2
Bromodichloromethane	ND	RL-05	ug/l	2.0	--	2
trans-1,3-Dichloropropene	ND	RL-05	ug/l	0.80	--	2
cis-1,3-Dichloropropene	ND	RL-05	ug/l	0.80	--	2
1,1-Dichloropropene	ND	RL-05	ug/l	1.0	--	2
Bromoform	ND	RL-05	ug/l	2.0	--	2
1,1,2,2-Tetrachloroethane	ND	RL-05	ug/l	1.0	--	2
Benzene	ND	RL-05	ug/l	2.0	--	2
Toluene	ND	RL-05	ug/l	2.0	--	2
Ethylbenzene	14	RL-05	ug/l	2.0	--	2
Chloromethane	ND	RL-05	ug/l	4.0	--	2
Bromomethane	ND	RL-05	ug/l	4.0	--	2
Vinyl chloride	22	RL-05	ug/l	4.0	--	2
Chloroethane	ND	RL-05	ug/l	4.0	--	2
1,1-Dichloroethene	ND	RL-05	ug/l	2.0	--	2
trans-1,2-Dichloroethene	ND	RL-05	ug/l	2.0	--	2
Trichloroethene	8.7	RL-05	ug/l	2.0	--	2

Project Name: 50 TUFTS STREET **Lab Number:** L2601000

Project Number: 045163 **Report Date:** 01/14/26

SAMPLE RESULTS

Lab ID: L2601000-01 Date Collected: 01/07/26 09:50

Client ID: 045163-MW122 Date Received: 01/08/26

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND	RL-05	ug/l	2.0	--	2
1,3-Dichlorobenzene	ND	RL-05	ug/l	2.0	--	2
1,4-Dichlorobenzene	ND	RL-05	ug/l	2.0	--	2
Methyl tert-butyl ether	2.5	RL-05	ug/l	2.0	--	2
p/m-Xylene	ND	RL-05	ug/l	4.0	--	2
o-Xylene	ND	RL-05	ug/l	2.0	--	2
cis-1,2-Dichloroethene	130	RL-05	ug/l	2.0	--	2
Dibromomethane	ND	RL-05	ug/l	2.0	--	2
1,2,3-Trichloropropane	ND	RL-05	ug/l	4.0	--	2
Styrene	370	RL-05	ug/l	2.0	--	2
Dichlorodifluoromethane	ND	RL-05	ug/l	4.0	--	2
Acetone	ND	RL-05	ug/l	20	--	2
Carbon disulfide	ND	RL-05	ug/l	10	--	2
2-Butanone	ND	RL-05	ug/l	20	--	2
4-Methyl-2-pentanone	ND	RL-05	ug/l	20	--	2
2-Hexanone	ND	RL-05	ug/l	20	--	2
Bromochloromethane	ND	RL-05	ug/l	2.0	--	2
Tetrahydrofuran	ND	RL-05	ug/l	4.0	--	2
2,2-Dichloropropane	ND	RL-05	ug/l	2.0	--	2
1,2-Dibromoethane	ND	RL-05	ug/l	1.0	--	2
1,3-Dichloropropane	ND	RL-05	ug/l	1.0	--	2
1,1,1,2-Tetrachloroethane	ND	RL-05	ug/l	2.0	--	2
Bromobenzene	ND	RL-05	ug/l	2.0	--	2
n-Butylbenzene	ND	RL-05	ug/l	2.0	--	2
sec-Butylbenzene	ND	RL-05	ug/l	2.0	--	2
tert-Butylbenzene	ND	RL-05	ug/l	2.0	--	2
o-Chlorotoluene	ND	RL-05	ug/l	2.0	--	2
p-Chlorotoluene	ND	RL-05	ug/l	2.0	--	2
1,2-Dibromo-3-chloropropane	ND	RL-05	ug/l	4.0	--	2
Hexachlorobutadiene	ND	RL-05	ug/l	1.2	--	2
Isopropylbenzene	ND	RL-05	ug/l	2.0	--	2
p-Isopropyltoluene	ND	RL-05	ug/l	2.0	--	2
Naphthalene	ND	RL-05	ug/l	4.0	--	2
n-Propylbenzene	ND	RL-05	ug/l	2.0	--	2
1,2,3-Trichlorobenzene	ND	RL-05	ug/l	4.0	--	2
1,2,4-Trichlorobenzene	ND	RL-05	ug/l	2.0	--	2
1,3,5-Trimethylbenzene	ND	RL-05	ug/l	2.0	--	2

Project Name: 50 TUFTS STREET **Lab Number:** L2601000

Project Number: 045163 **Report Date:** 01/14/26

SAMPLE RESULTS

Lab ID: L2601000-01 Date Collected: 01/07/26 09:50

Client ID: 045163-MW122 Date Received: 01/08/26

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND	RL-05	ug/l	2.0	--	2
Diethyl Ether	ND	RL-05	ug/l	4.0	--	2
Diisopropyl Ether	ND	RL-05	ug/l	1.0	--	2
Tert-Butyl Ethyl Ether	ND	RL-05	ug/l	1.0	--	2
Tert-Amyl Methyl Ether	ND	RL-05	ug/l	1.0	--	2
1,4-Dioxane	ND	RL-05	ug/l	100	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115	RL-05	70-130
Toluene-d8	96	RL-05	70-130
4-Bromofluorobenzene	94	RL-05	70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2601000
Report Date: 01/14/26

SAMPLE RESULTS

Lab ID: L2601000-02
Client ID: 045163-MW407
Sample Location: SOMERVILLE, MASSACHUSETTS

Date Collected: 01/07/26 14:30
Date Received: 01/08/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 01/12/26 21:21
Analyst: LBD

Extraction Method: EPA 5030B
Extraction Date: 01/09/26 10:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	40		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	1.1		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	1.6		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	4.1		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2601000

Project Number: 045163 **Report Date:** 01/14/26

SAMPLE RESULTS

Lab ID: L2601000-02 Date Collected: 01/07/26 14:30

Client ID: 045163-MW407 Date Received: 01/08/26

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	12		ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2601000

Project Number: 045163 **Report Date:** 01/14/26

SAMPLE RESULTS

Lab ID: L2601000-02 Date Collected: 01/07/26 14:30

Client ID: 045163-MW407 Date Received: 01/08/26

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	89		70-130

Consulting Engineers and Scientists

July 16, 2025
Project 04516-3

Steven and Lauren Miller
11 Morton Street
Somerville, MA 02145

Dear Mr. and Mrs. Miller:

Re: Indoor Air Sampling
11 Morton Street
Somerville, Massachusetts

Thank you for permitting GEI to conduct indoor air sampling at your property located at 11 Morton Street in Somerville, Massachusetts. Prior to sampling, we are providing you with a "Notice of Environmental Sampling Form (BWSC-123)," as required by the Massachusetts Department of Environmental Protection (MassDEP). We will also provide you with the results of the indoor air sampling after they are available from the analytical laboratory.

Thank you for your continued assistance. Please contact me at 781-721-4012 or igladstone@geiconsultants.com, if you have any questions.

Sincerely,

GEI CONSULTANTS, INC.

Ileen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President

Christopher Coner, CHMM
Project Manager

NMT/DJM
Enclosure
c: Catherine Malagrida, UniFirst Corporation
MassDEP-NERO (as part of Status Report)

B:\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Morton Street\11 Morton\2025 Sampling Letters\4. July 2025 NOS\11 Morton Street NOS Ltr July 2025.docx

GEI Consultants, Inc.
400 Unicorn Park Drive, Woburn, MA 01801
781.721.4000

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: Lauren and Steven Miller

2. Street Address: 11 Morton Street

City/Town: Somerville, MA Zip Code: 02145

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☐ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☐ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: 11 Morton Street

City/Town: Somerville, MA Zip Code: 02145-4205

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action
☐ Release Abatement Measure
☐ Utility-related Abatement Measure
☐ Phase I Initial Site Investigation
☐ Phase II Comprehensive Site Assessment
☐ Phase III Feasibility Evaluation
☐ Phase IV Remedy Implementation Plan
☑ Phase V/Remedy Operation Status
☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☑ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____ (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Indoor air sampling, soil vapor point installation, and sub-slab soil vapor sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Consulting Engineers and Scientists

August 29, 2025
Project 04516-3

Steven and Lauren Miller
11 Morton Street
Somerville, MA 02145

Dear Mr. and Mrs. Miller:

Re: Indoor Air Sampling
11 Morton Street
Somerville, Massachusetts

Thank you for permitting GEI to conduct indoor air sampling at your property located at 11 Morton Street in Somerville, Massachusetts. Prior to sampling, we are providing you with a "Notice of Environmental Sampling Form (BWSC-123)," as required by the Massachusetts Department of Environmental Protection (MassDEP). We will also provide you with the results of the indoor air sampling after they are available from the analytical laboratory.

Thank you for your continued assistance. Please contact me at 781-721-4012 or igladstone@geiconsultants.com, if you have any questions.

Sincerely,

GEI CONSULTANTS, INC.

Ileen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President

Christopher Coner, CHMM
Project Manager

NMT/DJM
Enclosure
c: Catherine Malagrida, UniFirst Corporation
MassDEP-NERO (as part of Status Report)

B:\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Morton Street\11 Morton\2025 Sampling Letters\6. August 2025 NOS\11 Morton Street NOS Ltr August 2025.docx

GEI Consultants, Inc.
400 Unicorn Park Drive, Woburn, MA 01801
781.721.4000

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: Lauren and Steven Miller

2. Street Address: 11 Morton Street

City/Town: Somerville, MA Zip Code: 02145

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☐ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☐ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: 11 Morton Street

City/Town: Somerville, MA Zip Code: 02145-4205

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☑ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☑ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____ (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Indoor air and sub-slab soil vapor sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

September 29, 2025
Project 045163

Steven and Lauren Miller
11 Morton Street, Unit 1
Somerville, MA 02145

Re: Indoor Air and Soil Vapor Sampling Results
11 Morton Street, Unit 1
Somerville, Massachusetts

Dear Mr. and Mrs. Miller:

On behalf of the UniFirst Corporation, GEI Consultants, Inc. collected indoor air and/or soil vapor samples on July 16, August 21, and August 29, 2025, at your property located at 11 Morton Street in connection with the ongoing monitoring associated with the historical impacts at the 50 Tufts Street site and to evaluate the potential for vapor intrusion.

Indoor Air and Sub-Slab Soil Gas Sampling – July 2025

On July 16, 2025, one indoor air sample was collected on the first floor, and one indoor air sample was collected in the basement. The samples were collected over a 24-hour period. Attached is a summary table of the chemicals detected in the indoor air samples (Table 1), and the laboratory data sheets for the recent sampling. On July 16, 2025, after completion of the indoor air sampling, GEI installed two vapor sub-slab monitoring points (SV1 and SV2) using Mini Vapor Pin® sampling devices in the concrete slab in the unfinished portion of the basement. Two sub-slab soil gas samples were then collected from the newly installed monitoring points. The samples were collected over a 1-hour period. Attached is a summary table of the chemicals detected in the sub-slab soil gas samples (Table 2), and the laboratory data sheets for the recent sampling.

In indoor air, concentrations of tetrachloroethylene (PCE), trans-1,2-Dichloroethene, and trichloroethylene (TCE) were detected in both the first floor and basement samples. Concentrations of PCE were detected at 0.149 µg/m^3 in both the first floor and basement samples. Concentrations of trans-1,2-Dichloroethene were detected at 0.135 µg/m^3 in both the first floor and basement samples. TCE was detected on the first floor at a concentration of 8.65 µg/m^3, while in the basement it was detected at a concentration of 6.88 µg/m^3. No other CVOCs were detected in the samples.

In accordance with Massachusetts Department of Environmental Protection (MassDEP) protocols, GEI performed a risk assessment screening using the July 16, 2025, indoor air results. The risk assessment screening demonstrated that the TCE indoor air concentrations posed an imminent hazard (IH) to a residential occupant; GEI notified MassDEP of the IH on July 28, 2025. The release was assigned RTN 3-52237. GEI is currently evaluating the IH condition to determine if it is related to the disposal site

or due to confounding substances inside the home. GEI believes that the presence of art supplies in the home is contributing to elevated TCE concentrations in indoor air.

In sub-slab soil gas, concentrations of 1,1,1-Trichloroethane (TCA), PCE, vinyl chloride, and TCE were detected in both samples. Concentrations of TCA were detected at 0.267 µg/m^3 and 0.136 µg/m^3 in SV1 and SV2, respectively. Concentrations of PCE were detected at 1.57 µg/m^3 and 21.0 µg/m^3 in SV1 and SV2, respectively. Concentrations of vinyl chloride were detected at 0.151 µg/m^3 and 0.138 µg/m^3 in SV1 and SV2, respectively. Concentrations of TCE were detected at 0.500 µg/m^3 and 1.55 µg/m^3, respectively.

The detected soil vapor concentrations are below the applicable MassDEP residential sub-slab soil gas screening values. Soil vapor concentrations that are below the soil gas screening values generally indicate that the vapor intrusion pathway is unlikely to be of concern under current conditions.

However, out of an abundance of caution to mitigate the potential IH, GEI installed two air purification units (APUs) in the home. On July 29, 2025, GEI installed one APU on the first floor. On August 6, 2025, GEI installed a second unit in the finished portion of the basement.

Indoor Air and Sub-Slab Soil Gas Sampling with APUs On – August 2025

On August 21, 2025, while the APUs were running, one indoor air sample was collected on the first floor, one indoor air sample was collected in the finished portion of the basement, and one indoor air sample was collected in the unfinished portion of the basement. After completion of indoor air sampling, two sub-slab soil gas samples were collected from the monitoring points installed in July 2025.

In indoor air, concentrations of TCE were detected in both the first floor and basement samples. Concentrations of TCE were detected at 0.989 µg/m^3 on the first floor, 0.215 µg/m^3 in the finished portion of the basement, and 0.124 µg/m^3 in the unfinished portion of the basement. No other CVOCs were detected in the samples.

In sub-slab soil gas, TCA, PCE, and TCE were detected in both samples. Concentrations of TCA were detected at 0.366 µg/m^3 and 0.256 µg/m^3 in SV1 and SV2, respectively. Concentrations of PCE were detected at 1.27 µg/m^3 and 20.0 µg/m^3 in SV1 and SV2, respectively. Concentrations of TCE were detected at 0.124 µg/m^3 and 0.736 µg/m^3 in SV1 and SV2, respectively.

The detected soil vapor concentrations are below the applicable MassDEP residential sub-slab soil gas screening values.

After completion of indoor air and sub-slab soil gas sampling, the APUs were shut off in preparation for further testing.

Indoor Air and Sub-Slab Soil Gas Sampling with APUs Off – August 2025

On August 29, 2025, after the APUs had been shut off for at least one week, one indoor air sample was collected on the first floor, one indoor air sample was collected in the finished portion of the basement, and one indoor air sample was collected in the unfinished portion of the basement. After completion of indoor air sampling, two sub-slab soil gas samples were collected from the monitoring points installed in July 2025.

In indoor air, concentrations of TCE were detected in both the first floor and basement samples. Concentrations of TCE were detected at 6.56 µg/m^3 on the first floor, 4.11 µg/m^3 in the finished portion of the basement, and 1.21 µg/m^3 in unfinished portion of the basement. No other CVOCs were detected in the samples.

In sub-slab soil gas, TCA, PCE, and TCE were detected in both samples. Concentrations of TCA were detected at 0.267 µg/m^3 in both SV1 and SV2. Concentrations of PCE were detected at 1.49 µg/m^3 and 20.8 µg/m^3 in SV1 and SV2, respectively. Concentrations of TCE were detected at 0.204 µg/m^3 and 1.29 µg/m^3 in SV1 and SV2, respectively.

The detected soil vapor concentrations are below the applicable MassDEP residential sub-slab soil gas screening values.

After completion of indoor air and sub-slab soil gas sampling, the APUs were turned back on.

Closing Remarks

MassDEP regulations provide that individuals and public officials may request additional public involvement activities under the Massachusetts Contingency Plan (MCP; 310 CMR 40.1403(9) and 40.1404). The property owner may also request additional documentation, such as that listed at 310 CMR 40.0017(3), associated with the above-referenced samples. We will provide such additional documentation within 30 days of our receipt of such a request.

We appreciate your continued cooperation throughout the sampling process. If you have any questions regarding the sampling results, please do not hesitate to contact me at 781.721.4012 or igladstone@geiconsultants.com.

Sincerely,

GEI CONSULTANTS, INC.

Ileen S. Gladstone, P.E, LSP
Senior Vice President

Christopher O. Coner, CHMM
Project Manager

JWG/DJM/
B:\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Morton Street\11 Morton\2025 Sampling Letters\7. July & August 2025 Results\11 Morton St Results July-August 2025.docx

Attachments
cc: Catherine Malagrida, UniFirst Corporation
MassDEP via Status Report

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville, MA Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: Lauren and Steven Miller

2. Street Address: 11 Morton Street

City/Town: Somerville, MA Zip Code: 02145

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☑ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☑ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: 11 Morton Street

City/Town: Somerville, MA Zip Code: 02145-4205

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action
☐ Release Abatement Measure
☐ Utility-related Abatement Measure
☐ Phase I Initial Site Investigation
☐ Phase II Comprehensive Site Assessment
☐ Phase III Feasibility Evaluation
☐ Phase IV Remedy Implementation Plan
☑ Phase V/Remedy Operation Status
☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☑ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____ (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Indoor air sampling, soil vapor point installation, and sub-slab soil vapor sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Table 1 - Chemical Testing Results -

Post-EPMM Installation Indoor Air
11 Morton Street
Somerville, Massachusetts

Sample Location:		11 Morton Street																	
Sample Name:		11 MORT-1		11 MORT-B		11MORT-1A		11MORT-1B		11MORT-B1		11MORT-B2		11MORT-1		11MORT-B		11MORT-1	
Sample Date:		10/23/08		10/23/08		1/21/09		1/21/09		1/21/09		1/21/09		8/11/09		8/11/09		2/23/10	
APU Status:		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Units:		µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**																		
Volatile Organic Compounds (VOCs)	TO-15																		
1,1,1-Trichloroethane (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	1.3	0.24
1,2-Dichloroethane		**0.45 J**	**0.11 J**	**0.49 J**	**0.12 J**	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	**11**	**2.8**	**2.0**	**0.49**	< 0.81	< 0.20
Carbon tetrachloride		**0.63 J**	0.10 J	**0.69 J**	0.11 J	**0.88 J**	0.14 J	**0.82 J**	0.13 J	**1.6**	0.25	**1.5**	0.24	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
trans-1,2-Dichloroethene		<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. EPMM = Exposure Pathway Mitigation Measure.
6. NT= Not tested
7. NS= No standard established
8. MassDEP = Massachusetts Department of Environmental Protection
9. Highlighted sample indicates most recent sampling rounds.
10. The samples from January 21, 2009 (11MORT-B1 and B2, and 11MORT-1A and 1B) were field duplicates of each other.
11. The laboratory notes for 11MORT-B from April 2025 indicate that the cansiter ran ambient.
12. Art supplies used by the homeowner were removed on July 31, 2025
13. APU installed on the first floor on July 29, 2025, and in the finished portion of the basement on August 6, 2025.
14. APUs shutdown on 8/21/2025 following completion of sampling.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 1 - Chemical Testing Results -

Post-EPMM Installation Indoor Air
11 Morton Street
Somerville, Massachusetts

		Sample Location:	11 Morton Street (continued)																	
		Sample Name:	11MORT-B		11MORT-1		11MORT-B		11MORT-1		11MORT-B		11MORT-1		11MORT-B		11MORT-F1		11MORT-B	
		Sample Date:	2/23/10		2/17/16		2/17/16		5/26/21		5/26/21		4/8/25		4/8/25		5/7/25		5/7/25	
		APU Status:	NA		NA		NA		NA		NA		NA				NA		NA	
		Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv
Analyte	**Method**																			
Volatile Organic Compounds (VOCs)	TO-15																			
1,1,1-Trichloroethane (TCA)			< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020
1,2-Dichloroethane			< 0.81	< 0.20	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Carbon tetrachloride			< 1.3	< 0.20	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)			< 1.4	< 0.20	**1.7**	0.25	**2.2**	0.33	0.190	0.028	<0.136	<0.020	<0.136	<0.020	<0.107	<0.020	0.203	0.030	0.217	0.032
trans-1,2-Dichloroethene			<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020			<0.079	<0.020	<0.079	<0.020
Trichloroethylene (TCE)			< 1.1	< 0.20	< 0.21	< 0.040	< 0.21	< 0.040	0.279	0.052	0.301	0.056	**1.05**	0.196	<0.107	<0.020	**2.77**	**0.516**	0.269	0.05

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. EPMM = Exposure Pathway Mitigation Measure.
6. NT= Not tested
7. NS= No standard established
8. MassDEP = Massachusetts Department of Environmental Protection
9. Highlighted sample indicates most recent sampling rounds.
10. The samples from January 21, 2009 (11MORT-B1 and B2, and 11MORT-1A and 1B) were field duplicates of each other.
11. The laboratory notes for 11MORT-B from April 2025 indicate that the cansiter ran ambient.
12. Art supplies used by the homeowner were removed on July 31, 2025
13. APU installed on the first floor on July 29, 2025, and in the finished portion of the basement on August 6, 2025.
14. APUs shutdown on 8/21/2025 following completion of sampling.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 1 - Chemical Testing Results -

Post-EPMM Installation Indoor Air
11 Morton Street
Somerville, Massachusetts

Sample Location:		11 Morton Street (continued)															
Sample Name:		11MORT-F1		11MORT-B		11MORT-F1		11MORT-B-Fin		11MORT-B-Unfin		11MORT-F1		11MORT-B-Fin		11MORT-B-Unfin	
Sample Date:		7/16/25		7/16/25		8/21/25		8/21/25		8/21/25		8/29/25		8/29/25		8/29/25	
APU Status:		NA		NA		ON		ON		ON		OFF		OFF		OFF	
Units:		µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv
Analyte	**Method**																
Volatile Organic Compounds (VOCs)	TO-15																
1,1,1-Trichloroethane (TCA)		<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020
1,2-Dichloroethane		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Carbon tetrachloride		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		0.149	0.022	0.149	0.022	<0.136	<0.020	<0.136	<0.020	<0.136	<0.020	<0.136	<0.020	<0.136	<0.020	<0.136	<0.020
trans-1,2-Dichloroethene		0.135	0.034	0.135	0.034	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	0.083	0.021	<0.079	<0.020
Trichloroethylene (TCE)		**8.65**	**1.61**	**6.88**	**1.28**	**0.989**	0.184	0.215	0.040	0.124	0.023	**6.56**	**1.22**	**4.11**	**0.765**	**1.21**	0.225

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. EPMM = Exposure Pathway Mitigation Measure.
6. NT= Not tested
7. NS= No standard established
8. MassDEP = Massachusetts Department of Environmental Protection
9. Highlighted sample indicates most recent sampling rounds.
10. The samples from January 21, 2009 (11MORT-B1 and B2, and 11MORT-1A and 1B) were field duplicates of each other.
11. The laboratory notes for 11MORT-B from April 2025 indicate that the cansiter ran ambient.
12. Art supplies used by the homeowner were removed on July 31, 2025
13. APU installed on the first floor on July 29, 2025, and in the finished portion of the basement on August 6, 2025.
14. APUs shutdown on 8/21/2025 following completion of sampling.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 2 - Chemical Testing Results Sub-Slab Soil Vapor
11 Morton Street
Somerville, Massachusetts

Sample Location:			11 Morton Street															
EPMM Status			Pre-EPMM				Post-EPMM											
Sample Name:			11 MORT-SS1		11 MORT-SS2		11-MORT-SV1		11-MORT-SV2		11-MORT-SV1		11-MORT-SV2		11-MORT-SV1		11-MORT-SV2	
Sample Date:			3/21/2007		3/21/2007		7/16/2025		7/16/2025		8/21/2025		8/21/2025		8/29/2025		8/29/2025	
Units:			ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values (µg/m^3)**																
Volatile Organic Compounds (VOCs)	TO-15																	
1,1,1-Trichloroethane (TCA)		210	8.2	1.5	<1.1	<0.20	0.267	0.049	0.136	0.025	0.366	0.067	0.256	0.047	0.267	0.049	0.267	0.049
1,1,2,2-Tetrachloroethane		2.8	<1.4	<0.20	<1.4	<0.20	<0.137	<0.020	<0.137	<0.020	<0.137	<0.020	<0.137	<0.020	<0.137	<0.020	<0.137	<0.020
1,1,2-Trichloroethane		10	<1.1	<0.20	<1.1	<0.20	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020
1,1-Dichloroethane		56	0.85	0.21	<0.81	<0.20	<0.081	<0.020	<0.081	<0.020	<0.081	<0.020	<0.081	<0.020	<0.081	<0.020	<0.081	<0.020
1,1-Dichloroethylene		56	1.2	0.31	<0.79	<0.20	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020
1,2-Dichloroethane		6.3	<0.81	<0.20	<0.81	<0.20	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Carbon tetrachloride		38	<1.3	<0.20	<1.3	<0.20	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloroethane		NS	<0.53	<0.20	<0.53	<0.20	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
cis-1,2-Dichloroethylene		56	<0.79	<0.20	<0.79	<0.20	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020
Tetrachloroethylene (PCE)		98	403	59.5	1.6	0.23	1.57	0.232	21.0	3.10	1.27	0.188	20.0	2.95	1.49	0.219	20.8	3.06
trans-1,2-Dichloroethylene		56	<0.79	<0.20	<0.79	<0.20	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020
Trichloroethylene (TCE)		28	9.7	1.8	<1.1	<0.20	0.500	0.093	1.55	0.289	0.124	0.023	0.736	0.137	0.204	0.038	1.29	0.24
Vinyl Chloride		19	<0.51	<0.20	<0.51	<0.20	0.151	0.059	0.138	0.054	<0.051	<0.020	<0.051	<0.020	<0.051	<0.020	<0.051	<0.020

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. MassDEP = Massachusetts Department of Environmental Protection
6. EPMM = Exposure Pathway Mitigation Measure.
7. NT= Not tested
8. NS= No standard established
9. Highlighted sample indicates most recent sampling rounds.
10. Residential Sub-Slab Soil Gas Screening Values taken from MassDEP "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.
11. New soil vapor points installed in July 2025.

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2545026
Report Date: 07/24/25

SAMPLE RESULTS

Lab ID: L2545026-01
Client ID: 045163-11MORT-F1
Sample Location: SOMERVILLE, MA

Date Collected: 07/16/25 10:09
Date Received: 07/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 07/24/25 01:09
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	0.034	0.020	--	0.135	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	1.61	0.020	--	8.65	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.022	0.020	--	0.149	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	83		60-140
bromochloromethane	84		60-140
chlorobenzene-d5	85		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2545026
Report Date: 07/24/25

SAMPLE RESULTS

Lab ID: L2545026-02
Client ID: 045163-11MORT-B
Sample Location: SOMERVILLE, MA

Date Collected: 07/16/25 10:05
Date Received: 07/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 07/24/25 01:48
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	0.034	0.020	--	0.135	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	1.28	0.020	--	6.88	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.022	0.020	--	0.149	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	86		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	86		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2545026
Report Date: 07/24/25

SAMPLE RESULTS

Lab ID: L2545026-03
Client ID: 045163-11MORT-SV1
Sample Location: SOMERVILLE, MA

Date Collected: 07/16/25 12:58
Date Received: 07/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 07/24/25 02:28
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	0.059	0.020	--	0.151	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.049	0.020	--	0.267	0.109	--		1
Trichloroethene	0.093	0.020	--	0.500	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.232	0.020	--	1.57	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	86		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	85		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2545026
Report Date: 07/24/25

SAMPLE RESULTS

Lab ID: L2545026-04
Client ID: 045163-11MORT-SV2
Sample Location: SOMERVILLE, MA

Date Collected: 07/16/25 12:59
Date Received: 07/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 07/24/25 03:08
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	0.054	0.020	--	0.138	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.025	0.020	--	0.136	0.109	--		1
Trichloroethene	0.289	0.020	--	1.55	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	3.10	0.020	--	21.0	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	87		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	85		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2553156
Report Date: 08/29/25

SAMPLE RESULTS

Lab ID: L2553156-01
Client ID: 045163-11MORT-F1
Sample Location: SOMERVILLE, MA

Date Collected: 08/21/25 09:17
Date Received: 08/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 08/27/25 20:55
Analyst: BJB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.184	0.020	--	0.989	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	100		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	103		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2553156
Report Date: 08/29/25

SAMPLE RESULTS

Lab ID: L2553156-02
Client ID: 045163-11MORT-B-FIN
Sample Location: SOMERVILLE, MA

Date Collected: 08/21/25 09:19
Date Received: 08/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 08/27/25 21:35
Analyst: BJB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.040	0.020	--	0.215	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	97		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	99		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2553156
Report Date: 08/29/25

SAMPLE RESULTS

Lab ID: L2553156-03
Client ID: 045163-11MORT-B-UNFIN
Sample Location: SOMERVILLE, MA

Date Collected: 08/21/25 09:21
Date Received: 08/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 08/27/25 22:16
Analyst: BJB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.023	0.020	--	0.124	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	100		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	102		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2553156
Report Date: 08/29/25

SAMPLE RESULTS

Lab ID: L2553156-04
Client ID: 045163-11MORT-SV-1
Sample Location: SOMERVILLE, MA

Date Collected: 08/21/25 11:51
Date Received: 08/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 08/29/25 04:09
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.067	0.020	--	0.366	0.109	--		1
Trichloroethene	0.023	0.020	--	0.124	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.188	0.020	--	1.27	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	97		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	124		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2553156
Report Date: 08/29/25

SAMPLE RESULTS

Lab ID: L2553156-05
Client ID: 045163-11MORT-SV-2
Sample Location: SOMERVILLE, MA

Date Collected: 08/21/25 11:58
Date Received: 08/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 08/29/25 04:48
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.047	0.020	--	0.256	0.109	--		1
Trichloroethene	0.137	0.020	--	0.736	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	2.95	0.020	--	20.0	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	98		60-140
bromochloromethane	103		60-140
chlorobenzene-d5	124		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2555013
Report Date: 09/05/25

SAMPLE RESULTS

Lab ID: L2555013-01
Client ID: 045163-11MORT-F1
Sample Location: SOMERVILLE, MA

Date Collected: 08/29/25 08:40
Date Received: 09/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 09/04/25 00:51
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	1.22	0.020	--	6.56	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	83		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	85		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2555013
Report Date: 09/05/25

SAMPLE RESULTS

Lab ID: L2555013-02
Client ID: 045163-11MORT-B-FIN
Sample Location: SOMERVILLE, MA

Date Collected: 08/29/25 09:05
Date Received: 09/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 09/04/25 01:33
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	0.021	0.020	--	0.083	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.765	0.020	--	4.11	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	79		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	79		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2555013
Report Date: 09/05/25

SAMPLE RESULTS

Lab ID: L2555013-03
Client ID: 045163-11MORT-B-UNFIN
Sample Location: SOMERVILLE, MA

Date Collected: 08/29/25 09:08
Date Received: 09/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 09/04/25 03:04
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.225	0.020	--	1.21	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	88		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	85		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2555013
Report Date: 09/05/25

SAMPLE RESULTS

Lab ID: L2555013-04
Client ID: 045163-11MORT-SV-1
Sample Location: SOMERVILLE, MA

Date Collected: 08/29/25 10:12
Date Received: 09/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 09/04/25 03:45
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.049	0.020	--	0.267	0.109	--		1
Trichloroethene	0.038	0.020	--	0.204	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.219	0.020	--	1.49	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	90		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	90		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2555013
Report Date: 09/05/25

SAMPLE RESULTS

Lab ID: L2555013-05
Client ID: 045163-11MORT-SV-2
Sample Location: SOMERVILLE, MA

Date Collected: 08/29/25 10:15
Date Received: 09/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 09/04/25 04:27
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.049	0.020	--	0.267	0.109	--		1
Trichloroethene	0.240	0.020	--	1.29	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	3.06	0.020	--	20.8	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	79		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	79		60-140

Consulting Engineers and Scientists

October 1, 2025
Project 04516-3

Daniel Bussison
CHARLESGATE
867 Boylston Street
Boston, MA 02116

Dear Mr. Bussison:

Re: Indoor Air Sampling
60 Tufts Street
Somerville, Massachusetts

Thank you for permitting GEI to conduct indoor air sampling at your property located at 60 Tufts Street in Somerville, Massachusetts. Following sampling, we are providing you with a "Notice of Environmental Sampling Form (BWSC-123)," as required by the Massachusetts Department of Environmental Protection (MassDEP). We will also provide you with the results of the indoor air sampling after they are available from the analytical laboratory.

Thank you for your continued assistance. Please contact me at 781-721-4012 or igladstone@geiconsultants.com, if you have any questions.

Sincerely,

GEI CONSULTANTS, INC.

Ileen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President

Christopher Coner, CHMM
Project Manager

DJM/
Enclosure
c: Catherine Malagrida, UniFirst Corporation
MassDEP-NERO (as part of Status Report)

B:\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Tufts Street\60 Tufts\2025 Sampling Letters\2025 Sept NOS\60 Tufts Street NOS Ltr 2025.docx

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: Daniel Bussison, Charlesgate

2. Street Address: 867 Boylston Street

City/Town: Boston, MA Zip Code: 02116

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☐ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☐ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: 60 Tufts Street

City/Town: Somerville, MA Zip Code: 02145

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action
☐ Release Abatement Measure
☐ Utility-related Abatement Measure
☐ Phase I Initial Site Investigation
☐ Phase II Comprehensive Site Assessment
☐ Phase III Feasibility Evaluation
☐ Phase IV Remedy Implementation Plan
☑ Phase V/Remedy Operation Status
☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☑ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____ (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Indoor air and sub-slab soil vapor sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

December 23, 2025
Project 04516-3

Mr. Reid Galas
60 Tufts Street – Unit 1
Somerville, MA 02145-4225

Re: Indoor Air and Soil Vapor Sampling Results
60 Tufts Street, Unit 1
Somerville, Massachusetts

Dear Mr. Galas:

On behalf of UniFirst Corporation, GEI Consultants, Inc. is providing the results of the indoor air and soil vapor sampling conducted at 60 Tufts Street on September 30 and October 1, 2025.

On August 28, 2025, to simulate conditions without operation of the active exposure pathway mitigation measure (AEPMM), the sub-slab depressurization system (SSDS) shutdown valve was closed for at least one week prior to collecting soil vapor samples.

On September 30, 2025, one indoor air sample was collected at your property. The sample was collected over a 24-hour period. Attached is a summary table of the chemicals detected in the indoor air sample along with the previous sampling results (Table 1), and the laboratory data sheet for the recent sampling.

Tetrachloroethylene (PCE) was detected at 0.787 micrograms per meter cubed (ug/m^3), 1,1,1-trichloroethane (TCA) was detected at 0.032 µg/m^3, and trichloroethylene (TCE) was detected at 0.020 µg/m^3. No other chlorinated volatile organic compounds (VOCs) were detected in the sample at concentrations above the laboratory reporting limits.

On October 1, 2025, one soil vapor sample was collected from beneath the building slab of your unit. Attached is a summary table of the chemicals detected in the soil vapor sample along with the previous sampling results (Table 2) and the laboratory data sheets for the recent sampling.

PCE was detected at 280 µg/m^3, TCA was detected at 337 µg/m^3, TCE was detected at 13.2 µg/m^3, 1,1-Dichlorethane was detected at 0.389 µg/m^3, 1,1-dichloroethylene was detected at 0.103 µg/m^3, and trans-1,2-Dichloroethylene was detected at 0.091 µg/m^3. No other chlorinated VOCs were detected in the sample at concentrations above the laboratory reporting limits.

After the soil vapor sampling was completed, we opened the shutdown valve. However, due to ongoing maintenance of the fan, it remains off.

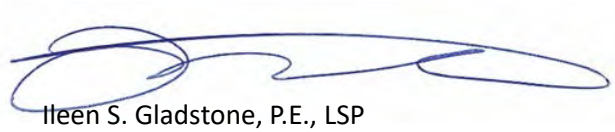
The detected indoor air and soil vapor concentrations are below the applicable MassDEP residential indoor air threshold values and sub-slab soil gas screening values. Soil vapor concentrations that are below the soil vapor screening values generally indicate that the vapor intrusion pathway is unlikely to be of concern under current conditions.

MassDEP regulations provide that individuals and public officials may request additional public involvement activities under the Massachusetts Contingency Plan (MCP; 310 CMR 40.1403(9) and 40.1404). The property owner may also request additional documentation, such as that listed at 310 CMR 40.0017(3), associated with the above-referenced samples. We will provide such additional documentation within 30 days of our receipt of such a request.

We appreciate your continued cooperation throughout the sampling process. If you have any questions regarding the sampling results, please do not hesitate to contact me at 781-721-4012 or igladstone@geiconsultants.com.

Sincerely,

GEI CONSULTANTS, INC.



Ileen S. Gladstone, P.E., LSP
Senior Vice President

Christopher O. Coner, CHMM
Project Manager

Attachments
cc: Catherine Malagrida, UniFirst Corporation
MassDEP via Status Report

NMT/DJM:jam
\\geiconsultants.com\data\Data_Storage\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Tufts Street\60 Tufts\2025 Sampling Letters\2025 Sept Results (Unit 1)\60 Tufts #1 October IA Results Ltr.docx

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: Reid Galas

2. Street Address: 60 Tufts Street, Unit 1

City/Town: Somerville, MA Zip Code: 02145-4225

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☑ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☑ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: 60 Tufts Street, Unit 1

City/Town: Somerville, MA Zip Code: 02145

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action
☐ Release Abatement Measure
☐ Utility-related Abatement Measure
☐ Phase I Initial Site Investigation
☐ Phase II Comprehensive Site Assessment
☐ Phase III Feasibility Evaluation
☐ Phase IV Remedy Implementation Plan
☑ Phase V/Remedy Operation Status
☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☑ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____ (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Indoor air and sub-slab soil vapor sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Table 1
Chemical Testing Results - Post-EPMM Installation Indoor Air
60 Tufts Street, Unit #1
Somerville, Massachusetts

				Sample Location:	60 Tufts Street, Unit 1		60 Tufts Street, Unit 1		60 Tufts Street, Unit 1		60 Tufts Street, Unit 1		60 Tufts Street, Unit 1	
				Sample Name:	60TUFTS1-1		60TUFTS1-1		60TUFTS-1		60TUFTS-1		60TUFTS-1	
				Sample Date:	5/27/09		2/5/11		7/11/18		4/25/19		10/1/25	
				Collected By:	GEI		GEI		GEI		GEI		GEI	
				Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Indoor Air Threshold Values (µg/m3)**												
Volatile Organic Compounds (VOCs)	TO-15	**µg/m^3**	**ppbv**											
Tetrachloroethylene (PCE)		1.4	0.21		< 1.4	< 0.20	< 1.4	< 0.20	0.787	0.116	0.712	0.105	0.787	0.116
1,1,1-Trichloroethane (TCA)		3	0.54		< 1.1	< 0.20	< 1.1	< 0.20	< 0.109	< 0.20	< 0.109	< 0.20	0.032	0.175
Trichloroethylene (TCE)		0.4	0.075		< 1.1	< 0.20	<1.1	< 0.20	< 0.107	< 0.20	< 0.107	< 0.20	0.020	0.107

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
8. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
9. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
10. Highlighted sample indicates most recent round.

Table 2
Chemical Testing Results - Pre- and Post-EPEM Installation Soil Vapor Results
60 Tufts Street, Unit #1
Somerville, Massachusetts

				Location Name:		60Tufts Street, Unit 1							
				Sample Name:		60TUFTS-SS13		60TUFTS-SS13		60TUFTS-SS13		60TUFTS-SS13	
				Sample Date:		1/16/2008		1/17/2008		1/21/2008		4/25/2019	
				Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values**											
Volatile Organic Compounds (VOCs)	TO-15	**µg/m³**	**ppbv**										
Carbon Tetrachloride		38	6	0.75 J	0.12 J	< 1.3	< 0.20	< 1.3	< 0.20	NT	NT	NT	NT
1,1-Dichloroethane		56	14	2.2	0.54	1.3	0.32	1.2	0.3	<0.809	<0.20	0.389	0.096
1,1-Dichloroethylene		56	14	40.8	10.3	23	5.7	26	6.5	< 0.793	< 0.20	0.103	0.026
trans-1,2-Dichloroethylene		56	14	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.793	< 0.20	0.091	0.023
Tetrachloroethylene (PCE)		98	14	237	34.9	249	36.7	2370	349	125	18.5	280	41.3
1,1,1-Trichloroethane (TCA)		210	38	3,260	597	1010	186	2440 G	448 G	124	22.7	338	61.9
Trichloroethylene (TCE)		28	5.2	5.9	1.1	4.6	0.86	160	29.8	7.95	1.48	13.2	2.45

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
8. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
9. Highlighted sample indicates most recent round.
10. NT = Not tested.
11. Residential Sub-Slab Soil Gas Screening Values taken from MassDEP "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-04
Client ID: 60TUFT-1
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 06:16
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/09/25 01:23
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.032	0.020	--	0.175	0.109	--		1
Trichloroethene	0.020	0.020	--	0.107	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.116	0.020	--	0.787	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	97		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	105		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-13
Client ID: 60TUFT-SS13
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 07:31
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/10/25 04:05
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.026	0.020	--	0.103	0.079	--		1
trans-1,2-Dichloroethene	0.023	0.020	--	0.091	0.079	--		1
1,1-Dichloroethane	0.096	0.020	--	0.389	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	61.7	0.020	--	337	0.109	--	E	1
Trichloroethene	2.45	0.020	--	13.2	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	41.3	0.020	--	280	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	87		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	92		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-13 D
Client ID: 60TUFT-SS13
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 07:31
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/10/25 07:12
Analyst: RAY

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
1,1,1-Trichloroethane	61.9	0.050	--	338	0.273	--		2.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	80		60-140
bromochloromethane	84		60-140
chlorobenzene-d5	84		60-140

December 23, 2025
Project 04516-3

RRN Holdings, LLC
2335 Ivylgail Drive East
Jacksonville, FL 32225

Re: Soil Vapor and Indoor Air Sampling Results
60 Tufts Street, Unit 4
Somerville, Massachusetts

To whom it may concern:

On behalf of UniFirst Corporation, GEI Consultants, Inc. is providing the results of the indoor air and soil vapor sampling conducted at 60 Tufts Street on September 30 and October 1, 2025.

On August 28, 2025, to simulate conditions without operation of the AEPMM, the sub-slab depressurization system (SSDS) shutdown valve was closed for at least one week prior to collecting the indoor air and soil vapor samples.

On September 30, 2025, one indoor air sample was collected in the basement and one sample was collected on the first floor. The samples were collected over a 24-hour period. Attached is a summary table of the chemicals detected in the indoor air samples along with the previous sampling results (Table 1), and the laboratory data sheets for the recent sampling.

Tetrachloroethylene (PCE) was detected in both samples at concentrations of 0.312 micrograms per meter cubed (µg/m^3) in the basement sample and 0.264 µg/m^3 on the first floor sample. Concentrations of 1,1,1-Trichloroethane (TCA) were detected in the first floor sample at 0.153 µg/m^3. No other chlorinated volatile organic compounds (VOCs) were detected in the samples at concentrations above the laboratory reporting limits.

On October 1, 2025, one soil vapor sample was collected from beneath the building slab of your unit. Attached is a summary table of the chemicals detected in the soil vapor sample along with the previous sampling results (Table 2) and the laboratory data sheets for the recent sampling.

PCE was detected at 4.98 µg /m^3 and 1,1,1-trichloroethane (TCA) was detected at 4.92 µg /m^3. Trichloroethylene (TCE) was detected at 0.167 µg /m^3. No other chlorinated VOCs were detected in the sample at concentrations above the laboratory reporting limits.

After the soil vapor sampling was completed, we opened the shutdown valve. However, due to ongoing maintenance of the fan, it remains off.

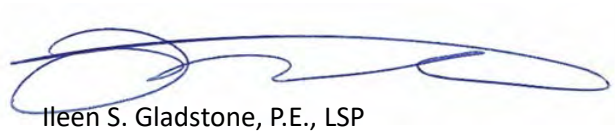
The detected indoor air and soil vapor concentrations are below the applicable MassDEP residential indoor air threshold values and sub-slab soil gas screening values. Soil vapor concentrations that are below the soil vapor screening values generally indicate that the vapor intrusion pathway is unlikely to be of concern under current conditions.

MassDEP regulations provide that individuals and public officials may request additional public involvement activities under the Massachusetts Contingency Plan (MCP; 310 CMR 40.1403(9) and 40.1404). The property owner may also request additional documentation, such as that listed at 310 CMR 40.0017(3), associated with the above-referenced samples. We will provide such additional documentation within 30 days of our receipt of such a request.

We appreciate your continued cooperation throughout the sampling process. If you have any questions regarding the sampling results, please do not hesitate to contact me at 781-721-4012 or igladstone@geiconsultants.com.

Sincerely,

GEI CONSULTANTS, INC.



Ileen S. Gladstone, P.E., LSP
Senior Vice President

Christopher O. Coner, CHMM
Project Manager

Attachments
cc: Catherine Malagrida, UniFirst Corporation
MassDEP via Status Report

NMT/DJM:jam
\\geiconsultants.com\data\Data_Storage\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Tufts Street\60 Tufts\2025 Sampling Letters\2025 Sept Results (Unit 4)\60 Tufts #4 October 2025 SV IA Results Ltr.docx

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: RRN Holdings, LLC

2. Street Address: 2335 Ivylgail Drive East

City/Town: Jacksonville, FL Zip Code: 32225

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☑ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☑ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: 60 Tufts Street, Unit 4

City/Town: Somerville, MA Zip Code: 02145

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☑ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☑ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____ (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Indoor air and sub-slab soil vapor sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Table 1
Chemical Testing Results - Post-EPMM Installation Indoor Air
60 Tufts Street, Unit #4
Somerville, Massachusetts

Sample Location:				60 Tufts Street, Unit 4															
Sample Name:				60TUFTU4-1		60TUFTU4-B		60TUFTU4-1		60TUFTU4-B		60TUFTU4-1		60TUFTU4-B		60TUFTU4-1		60TUFTU4-B		60TUFTU4-1	
Sample Date:				5/27/09		5/27/09		6/22/09		6/22/09		2/24/10		2/24/10		9/19/10		9/19/10		2/5/11	
Collected By:				GEI		GEI		GEI		GEI		GEI		GEI		GEI		GEI		GEI	
Units:				µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Indoor Air Threshold Values (µg/m3)**																			
Volatile Organic Compounds (VOCs)	TO-15	**µg/m^3**	**ppbv**																		
1,2-Dichloroethane (DCA)		0.09	0.022	3.2	0.80	< 0.81	< 0.20	2.8	0.70	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	NT	NT
Tetrachloroethylene (PCE)		1.4	0.21	1.4	0.20	1.0 J	0.15 J	0.95 J	0.14 J	< 1.4	< 0.20	5.8	0.86	5.2	0.76	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
1,1,1-Trichloroethane (TCA)				< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		0.4	0.075	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.75 J	0.14 J	2.1	0.39	1.9	0.35	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. NT = Not tested.
7. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
8. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
9. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
10. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
11. Highlighted sample indicates most recent round.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 1
Chemical Testing Results - Post-EPMM Installation Indoor Air
60 Tufts Street, Unit #4
Somerville, Massachusetts

				Sample Location:	60 Tufts Street, Unit 4 (continued)													
				Sample Name:	60TUFTU4-B		60TUFTS4-1		60TUFTS4-B		60TUFTS4-1		60TUFTS4-B		60TUFTS4-1		60TUFTS4-B	
				Sample Date:	2/5/11		7/11/18		7/11/18		4/25/19		4/25/19		10/1/25		10/1/25	
				Collected By:	GEI		GEI		GEI		GEI		GEI		GEI		GEI	
				Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m3	ppbv	µg/m3	ppbv
Analyte	**Method**	**MassDEP Residential Indoor Air Threshold Values (µg/m3)**																
Volatile Organic Compounds (VOCs)	TO-15	**µg/m^3**	**ppbv**															
1,2-Dichloroethane (DCA)		0.09	0.022		NT	NT	0.146	0.036	0.154	0.038	<0.079	<0.020	0.115	0.029	<0.079	<0.020	<0.079	<0.020
Tetrachloroethylene (PCE)		1.4	0.21		< 1.4	< 0.20	0.488	0.072	0.522	0.077	0.264	0.039	0.698	0.103	0.264	0.039	0.312	0.046
1,1,1-Trichloroethane (TCA)					< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.153	0.028	<0.109	<0.020
Trichloroethylene (TCE)		0.4	0.075		< 1.1	< 0.20	< 0.107	< 0.020	< 0.107	< 0.020	< 0.107	< 0.020	<0.107	<0.020	<0.107	<0.020	<0.107	<0.020

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. NT = Not tested.
7. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
8. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
9. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
10. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
11. Highlighted sample indicates most recent round.

Qualifying Note:
J The reported result is below the laboratory reporting limit and is estimated.

Table 2
Chemical Testing Results - Pre- and Post-EPMM Installation Soil Vapor Results
60 Tufts Street, Unit #4
Somerville, Massachusetts

				Location Name:	60 Tufts Street, Unit 4									
				Sample Name:	60TUFT-4-SS1		60TUFT#4-SS1		60TUFT-UNIT4-SS1		60TUFT-UNIT4-SS1		60TUFT-UNIT4-SS1	
				Sample Date:	4/4/2007		11/9/2007		1/16/2008		1/17/2008		1/21/2008	
				Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values (µg/m3)**												
Volatile Organic Compounds (VOCs)	TO-15	**µg/m³**	**ppbv**											
Carbon tetrachloride		38	6		< 2.5	< 0.40	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
1,1-Dichloroethane		56	14		< 1.6	< 0.40	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
cis-1,2-Dichloroethylene		56	14		< 1.6	< 0.40	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
1,1-Dichloroethylene		56	14		< 1.6	< 0.40	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		98	14		136	20	213	31.4	89.5	13.2	94.3	13.9	117	17.2
1,1,1-Trichloroethane (TCA)		210	38		345	63.2	170	31.1	200	36.7	197	36.1	234	42.9
1,1,2-Trichloroethane		10	1.9		< 2.2	< 0.40	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		28	5.2		< 2.1	< 0.40	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
8. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
9. Highlighted sample indicates most recent round.
10. NT = Not tested.
11. Residential Sub-Slab Soil Gas Screening Values taken from MassDEP "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.

Table 2
Chemical Testing Results - Pre- and Post-EPMM Installation Soil Vapor Results
60 Tufts Street, Unit #4
Somerville, Massachusetts

				Location Name:	60 Tufts Street, Unit 4 (continued)									
				Sample Name:	60TUFT-4-SS2		60TUFT#4-SS2		60TUFTS4-SS2		60TUFTS4-SS2		60TUFTS4-SS2	
				Sample Date:	4/4/2007		11/9/2007		7/13/2018		4/25/2019		10/1/2025	
				Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values (µg/m3)**												
Volatile Organic Compounds (VOCs)	TO-15	**µg/m³**	**ppbv**											
Carbon tetrachloride		38	6		< 1.3	< 0.20	< 1.3	< 0.20	NT	NT	NT	NT	NT	NT
1,1-Dichloroethane		56	14		< 0.81	< 0.20	< 0.81	< 0.20	< 0.081	< 0.020	<0.793	<0.200	< 0.081	< 0.020
cis-1,2-Dichloroethylene		56	14		< 0.79	< 0.20	< 0.79	< 0.20	< 0.079	< 0.020	<0.793	<0.200	< 0.079	< 0.020
1,1-Dichloroethylene		56	14		< 0.79	< 0.20	< 0.79	< 0.20	< 0.079	< 0.020	< 0.793	< 0.200	< 0.079	< 0.020
Tetrachloroethylene (PCE)		98	14		29	4.3	63	9.3	2.15	0.317	2.95	0.435	4.98	0.734
1,1,1-Trichloroethane (TCA)		210	38		181	33.1	237	43.4	0.971	0.178	1.57	0.288	4.92	0.902
1,1,2-Trichloroethane		10	1.9		< 1.1	< 0.20	< 1.1	< 0.20	< 0.109	< 0.020	<1.09	<0.200	< 0.109	< 0.020
Trichloroethylene (TCE)		28	5.2		< 1.1	< 0.20	< 1.1	< 0.20	< 0.107	< 0.020	<1.07	<0.200	0.167	0.031

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
8. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
9. Highlighted sample indicates most recent round.
10. NT = Not tested.
11. Residential Sub-Slab Soil Gas Screening Values taken from MassDEP "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-06
Client ID: 60TUFTS4-1
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 09:00
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/09/25 02:53
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.028	0.020	--	0.153	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.039	0.020	--	0.264	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	90		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	102		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-07
Client ID: 60TUFTS4-B
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 09:02
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/09/25 03:36
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.046	0.020	--	0.312	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	95		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	102		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-09
Client ID: 60TUFTS4-SS2
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 10:12
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/10/25 01:25
Analyst: RAY

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.902	0.020	--	4.92	0.109	--		1
Trichloroethene	0.031	0.020	--	0.167	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.734	0.020	--	4.98	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	79		60-140
bromochloromethane	85		60-140
chlorobenzene-d5	81		60-140

December 23, 2025
Project 04516-3

Daniel Bussison
CHARLESGATE
867 Boylston Street
Boston, MA 02116

Re: Indoor Air and Soil Vapor Sampling Results
60 Tufts Street
Somerville, Massachusetts

Dear Mr. Bussison:

On behalf of UniFirst Corporation, GEI Consultants, Inc. is providing the results of the indoor air and soil vapor sampling conducted at 60 Tufts Street on September 30 and October 1, 2025.

On August 28, 2025, to simulate conditions without operation of the active exposure pathway mitigation measure (AEPMM), the sub-slab depressurization system (SSDS) shutdown valve was closed for at least one week prior to collecting soil vapor samples.

On September 30, 2025, four indoor air samples were collected throughout the first-floor common spaces. The samples were collected over a 24-hour period. Attached is a summary table of the chemicals detected in the indoor air samples along with the previous sampling results (Table 1), and the laboratory data sheets for the recent sampling.

Out of the four samples, 60TUFTS-GARG and 60TUFTS-HALL had detects for multiple chemicals. Tetrachloroethylene (PCE) was detected at concentrations ranging from 0.732 to 0.848 micrograms per meter cubed (µg /m^3). 1,1,1-Trichloroethane (TCA) was detected at concentrations ranging from 0.125 to 0.191 µg /m^3. Trichloroethylene (TCE) was detected at concentrations ranging from 0.113 to 0.150 µg/m^3. No other chlorinated volatile organic compounds (VOCs) were detected in the samples at concentrations above the laboratory reporting limits.

On October 1, 2025, four soil vapor samples were collected from beneath the building slab. Attached is a summary table of the chemicals detected in the sub-slab soil vapor samples along with the previous sampling results (Table 2), and the laboratory data sheets for the recent sampling.

Concentrations of TCA were detected above the laboratory reporting limit in all four samples ranging from 28 to 373 µg /m^3. Concentrations of PCE and TCE were detected in all four samples at concentrations ranging from 1.82 to 332 µg /m^3 and 0.967 to 70.4 µg /m^3, respectively. 1,1-dichloroethylene (DCE) was detected in three samples (SS1, SS2, SS10) at concentrations ranging from 0.448 to 63.4 µg/m^3. 1,1-dichloroethane was detected in all four samples at concentrations ranging from 0.113 to 0.619 µg/m^3.

1,2-cis-dichloroethylene was detected in one sample (SS10) at a concentration of 0.349 µg/m^3. No other chlorinated VOCs were detected in the samples at concentrations above the laboratory reporting limits.

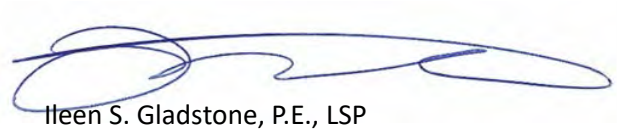
After the soil vapor sampling was completed, we opened the shutdown valve.

MassDEP regulations provide that individuals and public officials may request additional public involvement activities under the Massachusetts Contingency Plan (MCP; 310 CMR 40.1403(9) and 40.1404). The property owner may also request additional documentation, such as that listed at 310 CMR 40.0017(3), associated with the above-referenced samples. We will provide such additional documentation within 30 days of our receipt of such a request.

We appreciate your continued cooperation throughout the sampling process. If you have any questions regarding the sampling results, please do not hesitate to contact me at 781-721-4012 or igladstone@geiconsultants.com.

Sincerely,

GEI CONSULTANTS, INC.



Ileen S. Gladstone, P.E., LSP
Senior Vice President

Christopher O. Coner, CHMM
Project Manager

Attachments
cc: Catherine Malagrida, UniFirst Corporation
MassDEP via Status Report

NMT/DJM:jam
\\geiconsultants.com\data\Data_Storage\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Tufts Street\60 Tufts\2025 Sampling Letters\2025 Sept Results (common space)\60 Tufts October 2025 Common Space SV Results Ltr.docx

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: Daniel Bussison, Charlesgate

2. Street Address: 867 Boylston Street

City/Town: Boston, MA Zip Code: 02116

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☑ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☑ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: 60 Tufts Street

City/Town: Somerville, MA Zip Code: 02145

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action
☐ Release Abatement Measure
☐ Utility-related Abatement Measure
☐ Phase I Initial Site Investigation
☐ Phase II Comprehensive Site Assessment
☐ Phase III Feasibility Evaluation
☐ Phase IV Remedy Implementation Plan
☑ Phase V/Remedy Operation Status
☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☑ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____ (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Indoor air and sub-slab soil vapor sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Table 1
Chemical Testing Results - Post-EPMM Installation Indoor Air
60 Tufts Street, Common Spaces
Somerville, Massachusetts

				Sample Location:	60 Tufts Street, Common Spaces											
				Sample Name:	60TUFTHALL-A		60TUFTHALL-B		60TUFT-GARG		60TUFT-HALL		60TUFT-STOR1		60-TUFTSTOR2	
				Sample Date:	4/20/10		4/20/10		4/25/19		4/25/19		4/25/19		4/25/19	
				Collected By:	GEI		GEI		GEI		GEI		GEI		GEI	
				Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Indoor Air Threshold Values**														
Volatile Organic Compounds (VOCs)	TO-15	**µg/m^3**	**ppbv**													
Tetrachloroethylene (PCE)		1.4	0.21		< 1.4	< 0.20	< 1.4	< 0.20	0.210	0.031	0.292	0.043	0.163	0.024	0.142	0.021
1,1,1-Trichloroethane (TCA)		3	0.54		< 1.1	< 0.20	< 1.1	< 0.20	< 0.109	< 0.20	< 0.109	< 0.20	< 0.109	< 0.20	< 0.109	< 0.20
Trichloroethylene (TCE)		0.4	0.075		< 1.1	< 0.20	< 1.1	< 0.20	< 0.107	< 0.20	< 0.107	< 0.20	< 0.107	< 0.20	< 0.107	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
8. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
9. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
10. "HALL" samples collected in April 2019 and October 2025 were collected from the same location as "HALL-A" sample collected in 2010.
11. Highlighted samples indicate most recent round.

Table 1
Chemical Testing Results - Post-EPMM Installation Indoor Air
60 Tufts Street, Common Spaces
Somerville, Massachusetts

				Sample Location:	60 Tufts Street, Common Spaces							
				Sample Name:	60TUFT-GARG		60TUFT-HALL		60TUFT-STOR1		60-TUFTSTOR2	
				Sample Date:	10/1/25		10/1/25		10/1/25		10/1/25	
				Collected By:	GEI		GEI		GEI		GEI	
				Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Indoor Air Threshold Values**										
Volatile Organic Compounds (VOCs)	TO-15	**µg/m^3**	**ppbv**									
Tetrachloroethylene (PCE)		1.4	0.21		0.732	0.108	0.848	0.125	< 0.136	< 0.020	< 0.136	< 0.020
1,1,1-Trichloroethane (TCA)		3	0.54		0.125	0.023	0.191	0.035	< 0.109	< 0.020	< 0.109	< 0.020
Trichloroethylene (TCE)		0.4	0.075		0.113	0.021	0.150	0.028	< 0.107	< 0.020	< 0.107	< 0.020

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
8. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
9. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
10. "HALL" samples collected in April 2019 and October 2025 were collected from the same location as "HALL-A" sample collected in 2010.
11. Highlighted samples indicate most recent round.

Table 2
Chemical Testing Results - Pre- and Post-EPMM Installation Soil Vapor Results
60 Tufts Street, Common Spaces
Somerville, Massachusetts

	Sample Location:	Sample Location:	60 Tufts Street General Garage Area											
	Sample Name:	Sample Name:	60TUFT-SS10		60TUFT-SS10		60TUFT-SS10		60TUFT-SS10		60TUFT-SS10		60TUFT-SS10	
	Sample Date:	Sample Date:	1/16/2008		1/17/2008		1/21/2008		7/11/2018		4/25/2019		10/1/2025	
	Units:	Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values**												
Volatile Organic Compounds (VOCs)	TO-15	**µg/m³**	**ppbv**											
Carbon tetrachloride		38	6	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	NT	NT	NT	NT	NT	NT
1,1-Dichloroethane		56	14	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	0.243	0.060	<0.809	<0.200	0.251	0.062
cis-1,2-Dichloroethylene		56	14	1.3	0.33	0.67 J	0.17 J	1.3	0.32	0.188	0.048	<0.793	<0.200	0.349	0.088
trans-1,2-Dichloroethylene		56	14	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	0.109	0.028	<0.793	<0.200	< 0.040	< 0.159
1,1-Dichloroethylene		56	14	3.7	0.93	1.4	0.35	2.7	0.68	1.13	0.284	<0.793	<0.200	0.809	0.204
Tetrachloroethylene (PCE)		98	14	895	132	504	74.3	692	102	376	55.5	45.6	6.73	332	49
1,1,1-Trichloroethane (TCA)		210	38	14	2.5	5.1	0.94	9.3	1.7	65.5	12.0	8.57	1.57	119	21.8
1,1,2-Trichloroethane		10	1.9	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 0.136	< 0.025	<1.09	<0.200	< 0.218	< 0.040
Trichloroethylene (TCE)		28	5.2	226 G	42.1 G	196	36.5	170	31.6	60.7	11.3	11.4	2.12	70.4	13.1

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
8. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
9. Highlighted sample indicates most recent round.
10. NT = Not tested.
11. "SVT-MW202S" samples were collected from monitoring well soil vapor ports as part of sub-slab soil vapor sampling.
12. Residential Sub-Slab Soil Gas Screening Values taken from MassDEP "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Table 2
Chemical Testing Results - Pre- and Post-EPMM Installation Soil Vapor Results
60 Tufts Street, Common Spaces
Somerville, Massachusetts

Sample Location:		Sample Location:		60 Tufts Street Hall									
Sample Name:		Sample Name:		60TUFT-SS13		60TUFT-SS13		60TUFT-SS13		60TUFT-SS14		60TUFT-SS14	
Sample Date:		Sample Date:		1/16/2008		1/17/2008		1/21/2008		1/16/2008		1/17/2008	
Units:		Units:		µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values**											
Volatile Organic Compounds (VOCs)	TO-15	**µg/m³**	**ppbv**										
Carbon tetrachloride		38	6	0.75 J	0.12 J	< 1.3	< 0.20	1.1 J	0.18 J	< 1.3	< 0.20	< 1.3	< 0.20
1,1-Dichloroethane		56	14	2.2	0.54	1.3	0.32	2.6	0.64	1.2	0.3	0.89	0.22
cis-1,2-Dichloroethylene		56	14	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
trans-1,2-Dichloroethylene		56	14	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
1,1-Dichloroethylene		56	14	40.8	10.3	23	5.7	49.6	12.5	26	6.5	15	3.8
Tetrachloroethylene (PCE)		98	14	237	34.9	249	36.7	214	31.6	2370	349	1970	291
1,1,1-Trichloroethane (TCA)		210	38	3260 G	597 G	1010	186	3100	568	2440 G	448 G	1310	241
1,1,2-Trichloroethane		10	1.9	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		28	5.2	5.9	1.1	4.6	0.86	8.1	1.5	160	29.8	152	28.3

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
8. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
9. Highlighted sample indicates most recent round.
10. NT = Not tested.
11. "SVT-MW202S" samples were collected from monitoring well soil vapor ports as part of sub-slab soil vapor sampling.
12. Residential Sub-Slab Soil Gas Screening Values taken from MassDEP "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Table 2
Chemical Testing Results - Pre- and Post-EPMM Installation Soil Vapor Results
60 Tufts Street, Common Spaces
Somerville, Massachusetts

Sample Location:		Sample Location:		60 Tufts Street Hall (continued)													
Sample Name:		Sample Name:		60TUFT-SS14		60TUFT-SS14		60TUFT-SS14		60TUFT-SS14		60TUFT-SS16		60TUFT-SS16		60TUFT-SS16	
Sample Date:		Sample Date:		1/21/2008		7/11/2018		4/25/2019		10/1/2025		1/16/2008		1/17/2008		1/21/2008	
Units:		Units:		µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values**															
Volatile Organic Compounds (VOCs)	TO-15	**µg/m^3**	**ppbv**														
Carbon tetrachloride		38	6	< 1.3	< 0.20	NT	NT	NT	NT	NT	NT	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
1,1-Dichloroethane		56	14	1.5	0.36	0.154	0.038	<0.809	<0.200	0.113	0.028	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
cis-1,2-Dichloroethylene		56	14	< 0.79	< 0.20	< 0.079	< 0.020	<0.793	<0.200	< 0.079	< 0.020	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
trans-1,2-Dichloroethylene		56	14	< 0.79	< 0.20	0.083	0.021	<0.793	<0.200	< 0.079	< 0.020	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
1,1-Dichloroethylene		56	14	35	8.9	< 0.079	< 0.020	<0.793	<0.200	< 0.079	< 0.020	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		98	14	2500	368	268	39.5	108	16	269	39.6	134	19.8	119	17.5	199	29.3
1,1,1-Trichloroethane (TCA)		210	38	2240	410	43.1	7.90	16.6	3.05	81.3	14.9	79.7	14.6	14	2.5	72.6	13.3
1,1,2-Trichloroethane		10	1.9	< 1.1	< 0.20	< 0.109	< 0.020	<1.09	<0.200	< 0.109	< 0.020	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		28	5.2	127	23.7	29.6	5.50	16.9	3.15	28.4	5.28	8.6	1.6	7	1.3	12	2.2

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
8. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
9. Highlighted sample indicates most recent round.
10. NT = Not tested.
11. "SVT-MW202S" samples were collected from monitoring well soil vapor ports as part of sub-slab soil vapor sampling.
12. Residential Sub-Slab Soil Gas Screening Values taken from MassDEP "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Table 2
Chemical Testing Results - Pre- and Post-EPMM Installation Soil Vapor Results
60 Tufts Street, Common Spaces
Somerville, Massachusetts

Sample Location:		Sample Location:		60 Tufts Street Storage S													
Sample Name:		Sample Name:		60TUFT-SS1		60TUFT-SS1		60TUFT-SS1		60TUFT-SS1		60TUFT-SS2		60TUFT-STORAGE5-SS2		60TUFT-STORAGES-SS2	
Sample Date:		Sample Date:		4/4/2007		7/11/2018		4/25/2019		10/1/2025		4/4/2007		1/16/2008		1/17/2008	
Units:		Units:		µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values**															
Volatile Organic Compounds (VOCs)	TO-15	**µg/m³**	**ppbv**														
Carbon tetrachloride		38	6	5.7	0.9	NT	NT	NT	NT	NT	NT	< 13	< 2.0	< 1.3	< 0.20	< 1.3	< 0.20
1,1-Dichloroethane		56	14	23	5.6	0.287	0.071	<0.809	<0.200	0.619	0.153	< 8.1	< 2.0	2.8	0.7	< 0.81	< 0.20
cis-1,2-Dichloroethylene		56	14	1.1	0.29	< 0.079	< 0.020	<0.793	<0.200	< 0.079	< 0.020	< 7.9	< 2.0	< 0.79	< 0.20	< 0.79	< 0.20
trans-1,2-Dichloroethylene		56	14	< 0.79	< 0.20	< 0.079	< 0.020	<0.793	<0.200	< 0.079	< 0.020	< 7.9	< 2.0	< 0.79	< 0.20	< 0.79	< 0.20
1,1-Dichloroethylene		56	14	2580	650	15.3	3.87	41.6	10.5	63.4	16	391	98.5	293	73.9	11	2.9
Tetrachloroethylene (PCE)		98	14	104	15.4	6.20	0.915	5.93	0.87	16.10	2.38	17	2.5	16	2.3	3.5	0.52
1,1,1-Trichloroethane (TCA)		210	38	18300	3360	63.3	11.6	251	46	374	68.5	2970	544	2300	422	85.1	15.6
1,1,2-Trichloroethane		10	1.9	1.2	0.22	< 0.109	< 0.020	<1.09	<0.200	< 0.109	< 0.020	< 11	< 2.0	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		28	5.2	159	29.5	4.33	0.806	3.41	0.635	15.3	2.84	28	5.2	25	4.6	4.4	0.82

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
8. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
9. Highlighted sample indicates most recent round.
10. NT = Not tested.
11. "SVT-MW202S" samples were collected from monitoring well soil vapor ports as part of sub-slab soil vapor sampling.
12. Residential Sub-Slab Soil Gas Screening Values taken from MassDEP "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Table 2
Chemical Testing Results - Pre- and Post-EPMM Installation Soil Vapor Results
60 Tufts Street, Common Spaces
Somerville, Massachusetts

		Sample Location:		Sample Location:	60 Tufts Street Storage S (continued)									
		Sample Name:		Sample Name:	60TUFT-STORAGES-SS2		60TUFT-STORAGES-SS2		60TUFT-STORAGES-SS2		60TUFT-STORAGES-SS2		60TUFT-SS3	
		Sample Date:		Sample Date:	1/21/2008		7/11/2018		4/25/2019		10/1/2025		4/4/2007	
		Units:		Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m3	ppbv	µg/m³	ppbv
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values**												
Volatile Organic Compounds (VOCs)	TO-15	**µg/m³**	**ppbv**											
Carbon tetrachloride		38	6		0.63 J	0.10 J	NT	NT	NT	NT	NT	NT	< 13	< 2.0
1,1-Dichloroethane		56	14		1.1	0.28	0.093	0.023	<0.809	<0.200	0.158	0.039	5.3 J	1.3 J
cis-1,2-Dichloroethylene		56	14		< 0.79	< 0.20	< 0.079	< 0.020	<0.793	<0.200	< 0.079	< 0.020	< 7.9	< 2.0
trans-1,2-Dichloroethylene		56	14		< 0.79	< 0.20	< 0.079	< 0.020	<0.793	<0.200	< 0.079	< 0.020	< 7.9	< 2.0
1,1-Dichloroethylene		56	14		77.7	19.6	1.74	0.439	<0.793	<0.200	0.448	0.113	983	248
Tetrachloroethylene (PCE)		98	14		11	1.6	1.91	0.282	<1.36	<0.200	1.82	0.269	41	6
1,1,1-Trichloroethane (TCA)		210	38		447	81.9	12.0	2.20	7.09	1.30	28.00	5.13	6060	1110
1,1,2-Trichloroethane		10	1.9		< 1.1	< 0.20	< 0.109	< 0.020	<1.09	<0.200	< 0.109	< 0.020	< 11	< 2.0
Trichloroethylene (TCE)		28	5.2		16	2.9	0.752	0.140	<1.07	<0.200	0.967	0.180	109	20.2

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
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4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
8. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
9. Highlighted sample indicates most recent round.
10. NT = Not tested.
11. "SVT-MW202S" samples were collected from monitoring well soil vapor ports as part of sub-slab soil vapor sampling.
12. Residential Sub-Slab Soil Gas Screening Values taken from MassDEP "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.

Qualifying Notes:

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J The reported result is below the laboratory reporting limit and is estimated.

Table 2
Chemical Testing Results - Pre- and Post-EPMM Installation Soil Vapor Results
60 Tufts Street, Common Spaces
Somerville, Massachusetts

	Sample Location:	Sample Location:		60 Tufts Street MW202 Sub-Slab							
	Sample Name:	Sample Name:		SVT-MW202S		SVT-MW202S		SVT-MW202S		SVT-MW202S	
	Sample Date:	Sample Date:		7/17/2007		1/16/2008		1/17/2008		1/21/2008	
	Units:	Units:		µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values**									
Volatile Organic Compounds (VOCs)	TO-15	**µg/m^3**	**ppbv**								
Carbon tetrachloride		38	6	< 25	< 4.0	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
1,1-Dichloroethane		56	14	< 16	< 4.0	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
cis-1,2-Dichloroethylene		56	14	< 16	< 4.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
trans-1,2-Dichloroethylene		56	14	< 16	< 4.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
1,1-Dichloroethylene		56	14	11 J	2.8 J	0.79	0.2	0.48 J	0.12 J	0.56 J	0.14 J
Tetrachloroethylene (PCE)		98	14	2550	376	252	37.1	366	54.0	403	59.4
1,1,1-Trichloroethane (TCA)		210	38	537	98.5	28	5.1	27	4.9	35	6.4
1,1,2-Trichloroethane		10	1.9	< 22	< 4.0	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		28	5.2	253	47.0	11	2.0	11	2.0	15	2.7

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
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4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. On March 20, 2018, GEI observed the installation of a shutdown valve on the riser pipe of the SSDS.
8. The shutdown valve was closed for 1 week prior to collection of indoor air samples in July 2018, April 2019, and October 2025.
9. Highlighted sample indicates most recent round.
10. NT = Not tested.
11. "SVT-MW202S" samples were collected from monitoring well soil vapor ports as part of sub-slab soil vapor sampling.
12. Residential Sub-Slab Soil Gas Screening Values taken from MassDEP "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-01
Client ID: 60TUFT-STOR2
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 06:53
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/08/25 22:30
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	104		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-02
Client ID: 60TUFT-HALL
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 06:43
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/08/25 23:15
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.035	0.020	--	0.191	0.109	--		1
Trichloroethene	0.028	0.020	--	0.150	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.125	0.020	--	0.848	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	89		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	102		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-03
Client ID: 60TUFT-GARG
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 06:40
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/08/25 23:57
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.023	0.020	--	0.125	0.109	--		1
Trichloroethene	0.021	0.020	--	0.113	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.108	0.020	--	0.732	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	104		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-05
Client ID: 60TUFT-STOR1
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 06:55
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/09/25 02:08
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	94		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	105		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-08 D
Client ID: 60TUFT-SS10
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 08:45
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/10/25 00:44
Analyst: RAY

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.040	--	ND	0.102	--		2
1,1-Dichloroethene	0.204	0.040	--	0.809	0.159	--		2
trans-1,2-Dichloroethene	ND	0.040	--	ND	0.159	--		2
1,1-Dichloroethane	0.062	0.040	--	0.251	0.162	--		2
cis-1,2-Dichloroethene	0.088	0.040	--	0.349	0.159	--		2
1,1,1-Trichloroethane	21.8	0.040	--	119	0.218	--		2
Trichloroethene	13.1	0.040	--	70.4	0.215	--		2
1,1,2-Trichloroethane	ND	0.040	--	ND	0.218	--		2
Tetrachloroethene	49.0	0.040	--	332	0.271	--		2
1,1,2,2-Tetrachloroethane	ND	0.040	--	ND	0.275	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	97		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-10
Client ID: 60TUFT-STORAGES-SS2
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 08:41
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/10/25 02:03
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.113	0.020	--	0.448	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	0.039	0.020	--	0.158	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	5.13	0.020	--	28.0	0.109	--		1
Trichloroethene	0.180	0.020	--	0.967	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.269	0.020	--	1.82	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	84		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	87		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-11
Client ID: 60TUFT-SS1
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 08:40
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/10/25 02:44
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	16.0	0.020	--	63.4	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	0.153	0.020	--	0.619	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	68.3	0.020	--	373	0.109	--	E	1
Trichloroethene	2.84	0.020	--	15.3	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	2.38	0.020	--	16.1	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	90		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	95		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-11 D
Client ID: 60TUFT-SS1
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 08:40
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/10/25 06:36
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
1,1,1-Trichloroethane	68.5	0.050	--	374	0.273	--		2.5

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	83		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	90		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-12
Client ID: 60TUFT-SS14
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 08:44
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/10/25 03:25
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	0.028	0.020	--	0.113	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	14.9	0.020	--	81.3	0.109	--		1
Trichloroethene	5.28	0.020	--	28.4	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	39.6	0.020	--	269	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	83		60-140
bromochloromethane	87		60-140
chlorobenzene-d5	88		60-140

January 5, 2026
Project No. 04516-3

Mr. Philip Carey
120 Rogers Avenue
Somerville, MA 02144-2209

Re: Indoor Air Sampling
91-93 Franklin Street
Somerville, Massachusetts

Dear Mr. Carey:

Thank you for permitting GEI Consultants, Inc. to conduct indoor air sampling at your property located at 91-93 Franklin Street in Somerville, Massachusetts. Following sampling, we are providing you with a "Notice of Environmental Sampling Form (BWSC-123)," as required by the Massachusetts Department of Environmental Protection (MassDEP). We will also provide you with the results of the indoor air sampling after they are available from the analytical laboratory.

Thank you for your continued assistance. Please contact me at 781.721.4012 or igladstone@geiconsultants.com, if you have any questions.

Sincerely,

GEI CONSULTANTS, INC.

Ileen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President

Christopher Coner, CHMM
Project Manager

Enclosure

cc: Catherine Malagrida, UniFirst Corporation
MassDEP-NERO (as part of Status Report)

NMT/DJM/ISG/CC:bdp
\\geiconsultants.com\data\Data_Storage\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Franklin Street\91-93 Franklin\2025 Sampling Letters\3. December NOS\91-93 Franklin NOS Ltr Dec 2025.docx

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville, MA Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: Philip Carey

2. Street Address: 120 Rogers Avenue

City/Town: Somerville, MA Zip Code: 02144-2209

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☐ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☐ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: 91-93 Franklin Street

City/Town: Somerville, MA Zip Code: 02145-4230

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action
☐ Release Abatement Measure
☐ Utility-related Abatement Measure
☐ Phase I Initial Site Investigation
☐ Phase II Comprehensive Site Assessment
☐ Phase III Feasibility Evaluation
☐ Phase IV Remedy Implementation Plan
☑ Phase V/Remedy Operation Status
☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☑ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____ (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Indoor air sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

January 29, 2026
Project 045163

Mr. Philip Carey
91-93 Franklin Street
Somerville, MA 02143

Re: Indoor Air Sampling Results
91-93 Franklin Street
Somerville, Massachusetts

Dear Mr. Carey:

On behalf of the UniFirst Corporation, GEI Consultants, Inc. collected indoor air samples on December 19, 2025, at your property at 91-93 Franklin Street to evaluate the potential for vapor intrusion.

On December 19, 2025, one indoor air sample was collected in the basement and two samples were collected on the first floor, one in each of the units. The samples were collected over a 24-hour period. Attached is a summary table of the chemicals detected in the indoor air samples (Table 1), and the laboratory data sheets for the recent sampling. A Massachusetts Department of Environmental Protection (MassDEP) Notice of Environmental Sampling Form (BWSC123) is also attached.

Tetrachloroethylene (PCE) was detected in all three samples. Concentrations of PCE were detected at 0.231 micrograms per meter cubed (µg/m^3) on the first floor of 93 Franklin, 0.665 µg/m^3 on the first floor of 91 Franklin and 0.278 µg/m^3 in the basement.

The detected indoor air concentrations are comparable to historical results and are indicative of a condition of No Significant Risk (NSR) existing. Furthermore, they are below applicable MassDEP residential and commercial indoor air threshold values.

Individuals and public officials may request additional public involvement activities under the Massachusetts Contingency Plan (MCP; 310 CMR 40.1403(9) and 40.1404). The property owner may also request additional documentation, such as that listed at 310 CMR 40.0017(3), associated with the above-referenced samples. We will provide such additional documentation within 30 days of our receipt of such a request.

We appreciate your continued cooperation throughout the sampling process. If you have any questions regarding the sampling results, please do not hesitate to contact me at 781.721.4012 or igladstone@geiconsultants.com.

Sincerely,

GEI Consultants, Inc

Ileen S. Gladstone, P.E, LSP
Senior Vice President

Christopher O. Coner, CHMM
Project Manager

\\geiconsultants.com\data\Data_Storage\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Franklin Street\91-93 Franklin\2025 Sampling Letters\4. December Results\91-93 Franklin Dec Results Ltr.docx

Attachments

cc: Catherine Malagrida, UniFirst Corporation
MassDEP via Status Report

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville, MA Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: Philip Carey

2. Street Address: 120 Rogers Avenue

City/Town: Somerville, MA Zip Code: 02144-2209

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☑ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☑ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: 91-93 Franklin Street

City/Town: Somerville, MA Zip Code: 02145-4230

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action
☐ Release Abatement Measure
☐ Utility-related Abatement Measure
☐ Phase I Initial Site Investigation
☐ Phase II Comprehensive Site Assessment
☐ Phase III Feasibility Evaluation
☐ Phase IV Remedy Implementation Plan
☑ Phase V/Remedy Operation Status
☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☑ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____ (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Indoor air sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Table 1 - Chemical Testing Results - Pre- and Post-EPMM Indoor Air
91-93 Franklin Street
Somerville, Massachusetts

Sample Location:			91-93 Franklin Street pre-EPMM				91-93 Franklin Street post-EPMM															
Sample Name:			93 Franklin-1		93 Franklin-B		91-93 FRANK-1		91-93 FRANK-B		91-93FRAN-1		91-93FRAN-B		91-93FRAN-1		91-93FRAN-B		91-93FRAN-1		91-93FRAN-B	
Sample Date:			2/14/07		2/14/07		4/8/09		4/8/09		3/24/10		3/24/10		12/7/10		12/7/2010		2/2/11		2/2/2011	
Units:			µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values**																				
Volatile Organic Compounds (VOCs)	TO-15																					
Tetrachloroethylene (PCE)		1.4	0.95 J	0. 14 J	3.5	0.52	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	<1.4	<0.20	<1.4	<0.20	<1.4	<0.20	<1.4	<0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
8. Highlighted samples indicate most recent round.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 1 - Chemical Testing Results - Pre- and Post-EPMM Indoor Air
91-93 Franklin Street
Somerville, Massachusetts

		Sample Location:	91-93 Franklin Street post-EPMM (cont)															
		Sample Name:	91-93FRAN-1		91-93FRAN-B		93FRAN-1		91FRAN-1		93FRAN-B		93FRAN-1		91FRAN-1		93FRAN-B	
		Sample Date:	3/2/12		3/2/2012		2/28/25		2/28/25		2/28/25		12/19/25		12/19/25		12/19/25	
		Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values**																
Volatile Organic Compounds (VOCs)	TO-15																	
Tetrachloroethylene (PCE)		1.4	<1.4	<0.20	<1.4	<0.20	0.183	0.027	0.163	0.024	0.156	0.023	0.231	0.034	0.665	0.098	0.278	0.041

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
8. Highlighted samples indicate most recent round.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582287
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582287-01
Client ID: 045163-93FRAN-B
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 07:35
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 21:15
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.041	0.020	--	0.278	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	94		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	100		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582287
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582287-02
Client ID: 045163-91FRAN-1
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 07:40
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 21:47
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.098	0.020	--	0.665	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	92		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	98		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582287
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582287-03
Client ID: 045163-93FRAN-1
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 07:50
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 22:19
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.034	0.020	--	0.231	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	98		60-140

January 5, 2026
Project No. 04516-3

Ms. Sara Peddle
32 Knowlton Street
Somerville, MA 02145

Re: Indoor Air Sampling
32 Knowlton Street
Somerville, Massachusetts

Dear Ms. Peddle:

Thank you for permitting GEI Consultants, Inc. to conduct indoor air sampling at your property located at 32 Knowlton Street in Somerville, Massachusetts. Following sampling, we are providing you with a "Notice of Environmental Sampling Form (BWSC-123)," as required by the Massachusetts Department of Environmental Protection (MassDEP). We will also provide you with the results of the indoor air sampling after they are available from the analytical laboratory.

Thank you for your continued assistance. Please contact me at 781.721.4012 or igladstone@geiconsultants.com, if you have any questions.

Sincerely,

GEI CONSULTANTS, INC.

Ileen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President

Christopher Coner, CHMM
Project Manager

Enclosure

cc: Catherine Malagrida, UniFirst Corporation
MassDEP-NERO (as part of Status Report)

NMT/DJM/ISG/CC:bdp
B:\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Knowlton Street\32 Knowlton\2025 Sampling Letters\December 2025 NOS\32 Knowlton Street NOS Ltr Dec 2025.docx

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville, MA Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: Sara Peddle

2. Street Address: 32 Knowlton Street

City/Town: Somerville, MA Zip Code: 02145-4225

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☐ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☐ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: 32 Knowlton Street

City/Town: Somerville, MA Zip Code: 02145-4225

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action
☐ Release Abatement Measure
☐ Utility-related Abatement Measure
☐ Phase I Initial Site Investigation
☐ Phase II Comprehensive Site Assessment
☐ Phase III Feasibility Evaluation
☐ Phase IV Remedy Implementation Plan
☑ Phase V/Remedy Operation Status
☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☑ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____ (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Indoor air sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

January 29, 2026
Project 045163

Ms. Sara Peddle
32 Knowlton Street
Somerville, MA 02143

Re: Indoor Air Sampling Results
32 Knowlton Street, Somerville, Massachusetts

Dear Ms. Peddle:

On behalf of the UniFirst Corporation, GEI Consultants, Inc. collected indoor air samples on December 19, 2025, at your property at 32 Knowlton Street to evaluate the potential for vapor intrusion.

On December 19, 2025, one indoor air sample was collected each in the basement and on the first floor. The samples were collected over a 24-hour period. Attached is a summary table of the chemicals detected in the indoor air samples (Table 1), and the laboratory data sheets for the recent sampling. A Massachusetts Department of Environmental Protection (MassDEP) Notice of Environmental Sampling Form (BWSC123) is also attached.

Tetrachloroethylene (PCE) was detected at a concentrations of 0.136 micrograms per meter cubed ($\mu g/m^3$) in the basement.

The detected indoor air concentrations are comparable to historical results and are indicative of a condition of No Significant Risk (NSR)existing. Furthermore, they are below applicable MassDEP residential and commercial indoor air threshold values.

Individuals and public officials may request additional public involvement activities under the Massachusetts Contingency Plan (MCP; 310 CMR 40.1403(9) and 40.1404). The property owner may also request additional documentation, such as that listed at 310 CMR 40.0017(3), associated with the above-referenced samples. We will provide additional documentation within 30 days of our receipt of such a request.

We appreciate your continued cooperation throughout the sampling process. If you have any questions regarding the sampling results, please do not hesitate to contact me at 781.721.4012 or igladstone@geiconsultants.com.

GEI Consultants, Inc

Ileen S. Gladstone, P.E, LSP
Senior Vice President

Christopher O. Coner, CHMM
Project Manager

NMT/DJM:jam
\\geiconsultants.com\data\Data_Storage\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Knowlton Street\32 Knowlton\2025 Sampling Letters\4. December 2025 Results\32 Knowlton Dec Results Ltr.docx
Attachments
cc: Catherine Malagrida, UniFirst Corporation
MassDEP via Status Report

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville, MA Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: Sara Peddle

2. Street Address: 32 Knowlton Street

City/Town: Somerville, MA Zip Code: 02145

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☑ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☑ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: 32 Knowlton Street

City/Town: Somerville, MA Zip Code: 02145-4135

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☑ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☑ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____ (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Indoor air sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Table 1 - Chemical Testing Results - Pre and Post-EPMM Installation Indoor Air
32 Knowlton Street
Somerville, Massachusetts

		Sample Location:	32 Knowlton Street pre-EPMM								32 Knowlton Street Post-EPMM							
		Sample Name:	32KNOW-1		32KNOW-B		32KNOW-1		32KNOW-B		32KNOW-1		32KNOW-B		32KNOW-1		32KNOW-B	
		Sample Date:	10/30/08		10/30/08		1/16/09		1/16/09		7/31/09		7/31/09		1/29/10		1/29/10	
		Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values**																
Volatile Organic Compounds (VOCs)	**TO-15**																	
1,2-Dichloroethane		0.09	0.49 J	0.12 J	<0.81	<0.20	<0.81	<0.20	<0.81	<0.20	< 0.81	< 0.20	3.0	0.73	< 0.81	< 0.20	< 0.81	< 0.20
Carbon tetrachloride		0.54	0.58 J	0.092 J	0.61 J	0.097 J	0.63 J	0.10 J	0.57 J	0.091 J	<1.3	< 0.20	<1.3	< 0.20	<1.3	< 0.20	<1.3	< 0.20
cis-1,2-Dichloroethene		0.8	<0.79	<0.20	<0.79	<0.20	<0.79	<0.20	0.59 J	0.15 J	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20
Tetrachloroethylene (PCE)		1.4	<1.4	<0.20	<1.4	<0.20	5.6	0.82	20	3.0	<1.4	< 0.20	<1.4	< 0.20	<1.4	< 0.20	<1.4	< 0.20
Trichloroethene		0.4	<1.1	<0.20	<1.1	<0.20	<1.1	<0.20	0.91 J	0.17 J	<1.1	< 0.20	<1.1	< 0.20	<1.1	< 0.20	<1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. NT = Not tested.
8. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
9. Highlighted samples indicate most recent round.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 1 - Chemical Testing Results - Pre and Post-EPMM Installation Indoor Air
32 Knowlton Street
Somerville, Massachusetts

		Sample Location:	32 Knowlton Street Post-EPMM (cont.)															
		Sample Name:	32KNOW-1 11/19/10		32KNOW-B 11/19/10		32KNOW-1 3/8/11		32KNOW-B 3/8/11		32KNOW-1 2/28/25		32KNOW-B 2/28/25		32KNOW-1 12/19/25		32KNOW-B 12/19/25	
		Sample Date:																
		Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values**																
Volatile Organic Compounds (VOCs)	**TO-15**																	
1,2-Dichloroethane		0.09	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Carbon tetrachloride		0.54	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
cis-1,2-Dichloroethene		0.8	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020
Tetrachloroethylene (PCE)		1.4	<1.4	< 0.20	<1.4	< 0.20	<1.4	< 0.20	<1.4	< 0.20	0.163	0.024	0.136	0.020	<0.136	<0.020	0.136	0.020
Trichloroethene		0.4	<1.1	< 0.20	<1.1	< 0.20	<1.1	< 0.20	<1.1	< 0.20	<0.107	<0.020	<0.107	<0.020	<0.107	<0.020	<0.107	<0.020

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. NT = Not tested.
8. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
9. Highlighted samples indicate most recent round.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582293
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582293-01
Client ID: 045163-32KNOW-B
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 11:05
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/30/25 00:00
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.020	0.020	--	0.136	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	94		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582293
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582293-02
Client ID: 045163-32KNOW-1
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 11:10
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/30/25 00:32
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	97		60-140

January 5, 2026
Project No. 04516-3

Ms. Max Jiang and Mr. Matthew Paul Viscue
34 Knowlton Street
Somerville, MA 02145

Re: Indoor Air Sampling
34 Knowlton Street
Somerville, Massachusetts

Dear Ms. Jiang and Mr. Viscue:

Thank you for permitting GEI Consultants, Inc. to conduct indoor air sampling at your property located at 34 Knowlton Street in Somerville, Massachusetts. Following sampling, we are providing you with a "Notice of Environmental Sampling Form (BWSC-123)," as required by the Massachusetts Department of Environmental Protection (MassDEP). We will also provide you with the results of the indoor air sampling after they are available from the analytical laboratory.

Thank you for your continued assistance. Please contact me at 781.721.4012 or igladstone@geiconsultants.com, if you have any questions.

Sincerely,

GEI CONSULTANTS, INC.

Ileen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President

Christopher Coner, CHMM
Project Manager

Enclosure

cc: Catherine Malagrida, UniFirst Corporation
MassDEP-NERO (as part of Status Report)

NMT/DJM/ISG/CC:bdp
B:\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Knowlton Street\34 Knowlton\2025 Sampling Letters\3. December 2025 NOS\34 Knowlton Street NOS Ltr Dec 2025.docx

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville, MA Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: Max Jiang and Matthew Paul Viscue

2. Street Address: 34 Knowlton Street

City/Town: Somerville, MA Zip Code: 02145

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☐ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☐ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/~~has been~~ conducted:

1. Street Address: 34 Knowlton Street

City/Town: Somerville, MA Zip Code: 02145

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action
☐ Release Abatement Measure
☐ Utility-related Abatement Measure
☐ Phase I Initial Site Investigation
☐ Phase II Comprehensive Site Assessment
☐ Phase III Feasibility Evaluation
☐ Phase IV Remedy Implementation Plan
☑ Phase V/Remedy Operation Status
☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Other _____ (specify)

3. Description of property where sampling will be/~~has been~~ conducted:

☑ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____ (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Indoor Air and Soil Vapor Sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

January 29, 2026
Project 045163

Max Jiang and Matthew Paul Viscue
34 Knowlton Street
Somerville, MA 02145

Re: Indoor Air and Soil Vapor Sampling Results
34 Knowlton Street
Somerville, Massachusetts

Dear Ms. Jiang and Mr. Viscue:

On behalf of the UniFirst Corporation, GEI Consultants, Inc. collected indoor air and soil vapor samples on December 19, 2025, at your property at 34 Knowlton Street to evaluate the potential for vapor intrusion.

On December 19, 2025, one indoor air sample was collected each in the basement and on the first floor. The samples were collected over a 24-hour period. Attached is a summary table of the chemicals detected in the indoor air samples (Table 1), and the laboratory data sheets for the recent sampling. A Massachusetts Department of Environmental Protection (MassDEP) Notice of Environmental Sampling Form (BWSC123) is also attached.

Trans-1,2-dichloroethylene (trans-1,2-DCE) was detected on the first floor and basement samples at a concentration of 0.151 micrograms per meter cubed (µg/m^3) and 0.190 µg/m^3, respectively. The detected indoor air concentrations are comparable to historical results and are indicative of a condition of No Significant Risk (NSR) existing. Furthermore, they are below applicable MassDEP residential and commercial indoor air threshold values.

On December 19, 2025, after completion of the indoor air sampling, one sub-slab soil gas sample was collected from the monitoring port installed on the passive venting system riser pipe in the basement to approximate the concentrations of chlorinated VOCs in soil vapor beneath the house. Attached is a summary table of the chemicals detected in the soil vapor sample (Table 2) and the laboratory data sheets for the recent sampling.

Tetrachloroethylene (PCE) was detected in soil vapor at a concentration of 1.00 µg/m^3 and trans-1,2-DCE was detected at a concentration of 0.135 µg/m^3. The detected soil vapor concentrations are below the applicable MassDEP residential sub-slab soil gas screening values.

Individuals and public officials may request additional public involvement activities under the Massachusetts Contingency Plan (MCP; 310 CMR 40.1403(9) and 40.1404). The property owner may also request additional documentation, such as that listed at 310 CMR 40.0017(3), associated with the above-referenced samples. We will provide additional documentation within 30 days of our receipt of such a request.

We appreciate your continued cooperation throughout the sampling process. If you have any questions regarding the sampling results, please do not hesitate to contact me at 781.721.4012 or igladstone@geiconsultants.com.

Sincerely,

GEI Consultants, Inc

Ileen S. Gladstone, P.E, LSP
Senior Vice President

Christopher O. Coner, CHMM
Project Manager

NMT/DJM:jam
\\geiconsultants.com\data\Data_Storage\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Knowlton Street\34 Knowlton\2025 Sampling Letters\4. December 2025 Results\34 Knowlton Dec Results Ltr.docx

Attachments

cc: Catherine Malagrida, UniFirst Corporation
MassDEP via Status Report

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville, MA Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: Max Jiang and Matthew Paul Viscue

2. Street Address: 34 Knowlton Street

City/Town: Somerville, MA Zip Code: 02145

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☑ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☑ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: 34 Knowlton Street

City/Town: Somerville, MA Zip Code: 02145

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action
☐ Release Abatement Measure
☐ Utility-related Abatement Measure
☐ Phase I Initial Site Investigation
☐ Phase II Comprehensive Site Assessment
☐ Phase III Feasibility Evaluation
☐ Phase IV Remedy Implementation Plan
☑ Phase V/Remedy Operation Status
☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☑ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____ (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Indoor Air Sampling, Soil Vapor Sampling (from passive venting riser pipe)

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Table 1 - Chemical Testing Results - Post-EPMM Installation Indoor Air
34 Knowlton Street
Somerville, Massachusetts

		Sample Location:	34 Knowlton Street											
		Sample Name:	34KNOWLTON-BASE		34KNOWLTON-1		34-KNOWLTON-BASE		34-KNOWLTON-1		34-KNOWLTON-BASE		34-KNOWLTON-1	
		Sample Date:	6/21/14		6/21/14		4/8/15		4/8/15		4/28/15		4/28/15	
		Collected By:	GEI		GEI		GEI		GEI		GEI		GEI	
		Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values**												
Volatile Organic Compounds (VOCs)	**TO-15**													
1,1,1-Trichloroethane (TCA)		3	<1.1	<0.20	<1.1	<0.20	<1.1	<0.20	1.2	0.22	<1.1	<0.20	<1.1	<0.20
cis-1,2-Dichloroethene		0.8	<0.79	<0.20	<0.79	<0.20	<0.79	<0.20	6.3	1.6	<0.79	<0.20	<0.79	<0.20
Tetrachloroethylene (PCE)		1.4	<1.4	<0.20	<1.4	<0.20	<1.4	<0.20	70.5	10.4	<1.4	<0.20	2.4	0.36
trans-1,2-Dichloroethene		0.8	11	2.8	18	4.6	<0.79	<0.20	<0.79	<0.20	<0.79	<0.20	1.5	0.39
Trichloroethene		0.4	<1.1	<0.20	<1.1	<0.20	<1.1	<0.20	1.2	0.22	<1.1	<0.20	<1.1	<0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
8. Highlighted samples indicate most recent round.
9. April 8, 2015 detections of PCE attributed to dry-cleaned clothing present in the residence.
10. The indoor air samples collected in February 2016 and November 2016 were collected under conditions that simulate the absence of the passive EPMM at the property.

Table 1 - Chemical Testing Results - Post-EPMM Installation Indoor Air
34 Knowlton Street
Somerville, Massachusetts

		Sample Location:	34 Knowlton Street											
		Sample Name:	34-KNOWLTON-2		34-KNOWLTON-3		34-KNOW-B		34-KNOW-1		34-KNOW-B		34-KNOW-1	
		Sample Date:	4/28/15		4/28/15		2/17/16		2/17/16		11/9/16		11/9/16	
		Collected By:	GEI		GEI		GEI		GEI		GEI		GEI	
		Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values**												
Volatile Organic Compounds (VOCs)	**TO-15**													
1,1,1-Trichloroethane (TCA)		3	<1.1	<0.20	<1.1	<0.20	<1.1	<0.20	<1.1	<0.20	<1.1	<0.20	<1.1	<0.20
cis-1,2-Dichloroethene		0.8	<0.79	<0.20	<0.79	<0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		1.4	<1.4	<0.20	<1.4	<0.20	0.54	0.08	2.6	0.38	1.8	0.26	5.5	0.81
trans-1,2-Dichloroethene		0.8	4.8	1.2	16	4.0	< 0.79	< 0.20	< 0.79	< 0.20	1.3	0.32	1.2	0.30
Trichloroethene		0.4	<1.1	<0.20	<1.1	<0.20	<0.21	<0.040	<0.21	<0.040	<0.21	<0.040	0.32	0.06

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
8. Highlighted samples indicate most recent round.
9. April 8, 2015 detections of PCE attributed to dry-cleaned clothing present in the residence.
10. The indoor air samples collected in February 2016 and November 2016 were collected under conditions that simulate the absence of the passive EPMM at the property.

Table 1 - Chemical Testing Results - Post-EPMM Installation Indoor Air
34 Knowlton Street
Somerville, Massachusetts

		Sample Location:	34 Knowlton Street											
		Sample Name:	34-KNOW-B		34-KNOW-1		34-KNOW-B		34-KNOW-1		34-KNOW-B		34-KNOW-1	
		Sample Date:	3/17/17		3/17/17		2/25/25		4/9/25		12/19/25		12/19/25	
		Collected By:	GEI		GEI		GEI		GEI		GEI		GEI	
		Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values**												
Volatile Organic Compounds (VOCs)	**TO-15**													
1,1,1-Trichloroethane (TCA)		3	<1.1	<0.20	<1.1	<0.20	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020
cis-1,2-Dichloroethene		0.8	< 0.79	< 0.20	< 0.79	< 0.20	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020
Tetrachloroethylene (PCE)		1.4	1.9	0.28	3.7	0.54	<0.136	<0.020	0.163	0.024	<0.136	<0.020	<0.136	<0.020
trans-1,2-Dichloroethene		0.8	<0.79	<0.20	<0.79	<0.20	0.135	0.034	0.127	0.032	0.190	0.048	0.151	0.038
Trichloroethene		0.4	<0.21	<0.040	<0.21	<0.040	<0.107	<0.020	<0.107	<0.020	<0.107	<0.020	<0.107	<0.020

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
8. Highlighted samples indicate most recent round.
9. April 8, 2015 detections of PCE attributed to dry-cleaned clothing present in the residence.
10. The indoor air samples collected in February 2016 and November 2016 were collected under conditions that simulate the absence of the passive EPMM at the property.

Table 2 - Chemical Testing Results Sub-Slab Soil Vapor
34 Morton Street
Somerville, Massachusetts

		Sample Location:	34 Knowlton							
		EPMM Status:	Post-EPMM							
		Sample Name:	34KNOW-SV		34KNOW-SV		34KNOW-SV		34-KNOW-SV-R	
		Sample Date:	4/28/2015		2/1/2016		11/9/2016		12/19/2025	
		Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values (µg/m^3)**								
Volatile Organic Compounds (VOCs)	TO-15									
Tetrachloroethylene (PCE)		98	< 1.4	<0.20	8.1	1.2	1.9	0.28	1.00	0.148
trans-1,2-Dichloroethylene		56	<0.79	<0.20	<23	<5.9	<3.2	<0.80	0.135	0.034

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. MassDEP = Massachusetts Department of Environmental Protection
6. EPMM = Exposure Pathway Mitigation Measure.
7. Residential Sub-Slab Soil Gas Screening Values taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.
8. Highlighted samples indicate most recent round.
9. The sample collected on April 28, 2015 was taken from the uncapped riser pipe of the passive venting system.
10. On January 25, 2016, GEI observed the installation of a shutdown valve on the riser pipe of the passive venting system.
11. The shutdown valve was closed for one week prior to the soil vapor samples collected on February 1, 2016 and November 9, 2016.
12. The shutdown valve was not closed for the sample collected on December 19, 2025.

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582281
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582281-01
Client ID: 045163-34-KNOW-B
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 08:35
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 17:57
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	0.048	0.020	--	0.190	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	93		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	97		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582281
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582281-02
Client ID: 045163-34-KNOW-1
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 08:40
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 18:29
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	0.038	0.020	--	0.151	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	96		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	99		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582281
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582281-03
Client ID: 045163-34-KNOW-SV-R
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 10:00
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/30/25 03:47
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	0.034	0.020	--	0.135	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.148	0.020	--	1.00	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	93		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	99		60-140

January 5, 2026
Project No. 04516-3

Mr. Steven and Mrs. Lauren Miller
11 Morton Street
Somerville, MA 02145

Re: Indoor Air and Soil Vapor Sampling
11 Morton Street
Somerville, Massachusetts

Dear Mr. and Mrs. Miller:

Thank you for permitting GEI Consultants, Inc. to conduct indoor air and soil vapor sampling at your property located at 11 Morton Street in Somerville, Massachusetts. Following sampling, we are providing you with a "Notice of Environmental Sampling Form (BWSC-123)," as required by the Massachusetts Department of Environmental Protection (MassDEP). We will also provide you with the results of the indoor air and soil vapor sampling after they are available from the analytical laboratory.

Thank you for your continued assistance. Please contact me at 781.721.4012 or igladstone@geiconsultants.com, if you have any questions.

Sincerely,

GEI CONSULTANTS, INC.

Ileen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President

Christopher Coner, CHMM
Project Manager

Enclosure

cc: Catherine Malagrida, UniFirst Corporation
MassDEP-NERO (as part of Status Report)

NMT/DJM/ISG/CC:bdp
B:\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Morton Street\11 Morton\2025 Sampling Letters\8. December 2025 NOS\11 Morton Street NOS Ltr Dec 2025.docx

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: Lauren and Steven Miller

2. Street Address: 11 Morton Street

City/Town: Somerville, MA Zip Code: 02145

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☐ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☐ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: 11 Morton Street

City/Town: Somerville, MA Zip Code: 02145-4205

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action	☐ Phase III Feasibility Evaluation
☐ Release Abatement Measure	☐ Phase IV Remedy Implementation Plan
☐ Utility-related Abatement Measure	☑ Phase V/Remedy Operation Status
☐ Phase I Initial Site Investigation	☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☑ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____ (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Indoor air and sub-slab soil vapor sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

January 26, 2026
Project 045163

Steven and Lauren Miller
11 Morton Street, Unit 1
Somerville, MA 02145

Re: Indoor Air and Soil Vapor Sampling Results
11 Morton Street, Unit 1
Somerville, Massachusetts

Dear Mr. and Mrs. Miller:

On behalf of the UniFirst Corporation, GEI Consultants, Inc. collected indoor air and soil vapor samples on December 19, 2025, at your property located at 11 Morton Street in connection with the ongoing monitoring associated with the historical impacts at the 50 Tufts Street site and to evaluate the potential for vapor intrusion.

On December 19, 2025, one indoor air sample was collected each on the first floor, in the finished portion of the basement, and in the unfinished portion of the basement. The samples were collected over a 24-hour period. Attached is a summary table of the chemicals detected in the indoor air samples (Table 1), and the laboratory data sheets for the recent sampling. A Massachusetts Department of Environmental Protection (MassDEP) Notice of Environmental Sampling Form (BWSC123) is also attached.

Trichloroethylene (TCE) was detected in the first floor and finished basement samples. Concentrations of TCE were detected at 2.18 micrograms per meter cubed (µg/m^3) on the first floor and 0.742 µg/m^3 in the finished portion of the basement. As explained in the Notification Retraction letter for 11 Morton Street dated September 24, 2025, the TCE detections are due to unrelated sources and are not associated with the 50 Tufts Street disposal site.

Tetrachloroethylene (PCE) was detected in the finished basement sample at a concentration of 0.536 µg/m^3. This concentration is comparable to historical results and is indicative of a condition of No Significant Risk (NSR). Furthermore, it is below applicable MassDEP residential and commercial indoor air threshold values. No other chlorinated volatile organic compounds (CVOCs), except TCE, were detected in the samples.

On December 19, 2025, after completion of indoor air sampling, two soil vapor samples were collected from the sub-slab monitoring points installed in July 2025 (SV1 and SV2). Attached is a summary table of the chemicals detected in the soil vapor samples (Table 2) and the laboratory data sheets for the recent sampling.

PCE was detected in both soil vapor samples, and TCE was detected in SV1. Concentrations of PCE were detected at 0.495 µg/m^3 and 6.34 µg/m^3 in SV1 and SV2, respectively. TCE was detected at a concentration of 0.253 µg/m^3 in SV1.

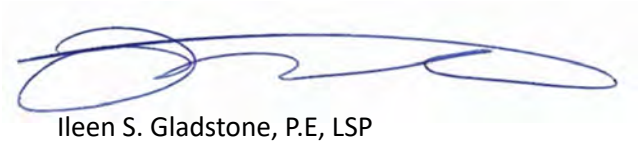
The detected soil vapor concentrations are below the applicable MassDEP residential sub-slab soil gas screening values.

MassDEP regulations provide that individuals and public officials may request additional public involvement activities under the Massachusetts Contingency Plan (MCP; 310 CMR 40.1403(9) and 40.1404). The property owner may also request additional documentation, such as that listed at 310 CMR 40.0017(3), associated with the above-referenced samples. We will provide additional documentation within 30 days of our receipt of such a request.

We appreciate your continued cooperation throughout the sampling process. If you have any questions regarding the sampling results, please do not hesitate to contact me at 781.721.4012 or igladstone@geiconsultants.com.

Sincerely,

GEI CONSULTANTS, INC.



Ileen S. Gladstone, P.E, LSP
Senior Vice President

Christopher O. Coner, CHMM
Project Manager

NMT/DJM:jam
\\geiconsultants.com\data\Data_Storage\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Morton Street\11 Morton\2025 Sampling Letters\9. December 2025 Results\11 Morton St Results December 2025.docx

Attachments
cc: Catherine Malagrida, UniFirst Corporation
MassDEP via Status Report

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville, MA Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: Lauren and Steven Miller

2. Street Address: 11 Morton Street

City/Town: Somerville, MA Zip Code: 02145

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☑ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☑ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: 11 Morton Street

City/Town: Somerville, MA Zip Code: 02145-4205

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action
☐ Release Abatement Measure
☐ Utility-related Abatement Measure
☐ Phase I Initial Site Investigation
☐ Phase II Comprehensive Site Assessment
☐ Phase III Feasibility Evaluation
☐ Phase IV Remedy Implementation Plan
☑ Phase V/Remedy Operation Status
☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☑ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____ (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Indoor air sampling and sub-slab soil vapor sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Table 1 - Chemical Testing Results - Post-EPMM Installation Indoor Air
11 Morton Street
Somerville, Massachusetts

		Sample Location:	11 Morton Street													
		Sample Name:	11 MORT-1		11 MORT-B		11MORT-1A		11MORT-1B		11MORT-B1		11MORT-B2		11MORT-1	
		Sample Date:	10/23/08		10/23/08		1/21/09		1/21/09		1/21/09		1/21/09		8/11/09	
		APU Status:	NA		NA		NA		NA		NA		NA		NA	
		Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values (µg/m3)**														
Volatile Organic Compounds (VOCs)	TO-15															
1,1,1-Trichloroethane (TCA)		3	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
1,2-Dichloroethane		0.09	0.45 J	0.11 J	0.49 J	0.12 J	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	11	2.8
Carbon tetrachloride		0.54	0.63 J	0.10 J	0.69 J	0.11 J	0.88 J	0.14 J	0.82 J	0.13 J	1.6	0.25	1.5	0.24	< 1.3	< 0.20
Tetrachloroethylene (PCE)		1.4	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
trans-1,2-Dichloroethene		0.8	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20
Trichloroethylene (TCE)		0.4	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. EPMM = Exposure Pathway Mitigation Measure.
6. NT= Not tested
7. MassDEP = Massachusetts Department of Environmental Protection
8. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.
9. Highlighted sample indicates most recent sampling rounds.
10. The samples from January 21, 2009 (11MORT-B1 and B2, and 11MORT-1A and 1B) were field duplicates of each other.
11. The laboratory notes for 11MORT-B from April 2025 indicate that the cansiter ran ambient.
12. Art supplies used by the homeowner were removed on July 31, 2025
13. APU installed on the first floor on July 29, 2025, and in the finished portion of the basement on August 6, 2025.
14. APUs shutdown on 8/21/2025 following completion of sampling.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 1 - Chemical Testing Results - Post-EPMM Installation Indoor Air
11 Morton Street
Somerville, Massachusetts

		Sample Location:	11 Morton Street (continued)													
		Sample Name:	11MORT-B		11MORT-1		11MORT-B		11MORT-1		11MORT-B		11MORT-1		11MORT-B	
		Sample Date:	8/11/09		2/23/10		2/23/10		2/17/16		2/17/16		5/26/21		5/26/21	
		APU Status:	NA		NA		NA		NA		NA		NA		NA	
		Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m3	ppbv	µg/m3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values (µg/m3)**														
Volatile Organic Compounds (VOCs)	TO-15															
1,1,1-Trichloroethane (TCA)		3	< 1.1	< 0.20	1.3	0.24	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	<0.109	<0.020	<0.109	<0.020
1,2-Dichloroethane		0.09	2.0	0.49	< 0.81	< 0.20	< 0.81	< 0.20	NT	NT	NT	NT	NT	NT	NT	NT
Carbon tetrachloride		0.54	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		1.4	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	1.7	0.25	2.2	0.33	0.190	0.028	<0.136	<0.020
trans-1,2-Dichloroethene		0.8	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.079	<0.020	<0.079	<0.020
Trichloroethylene (TCE)		0.4	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 0.21	< 0.040	< 0.21	< 0.040	0.279	0.052	0.301	0.056

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. EPMM = Exposure Pathway Mitigation Measure.
6. NT= Not tested
7. MassDEP = Massachusetts Department of Environmental Protection
8. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.
9. Highlighted sample indicates most recent sampling rounds.
10. The samples from January 21, 2009 (11MORT-B1 and B2, and 11MORT-1A and 1B) were field duplicates of each other.
11. The laboratory notes for 11MORT-B from April 2025 indicate that the cansiter ran ambient
12. Art supplies used by the homeowner were removed on July 31, 2025
13. APU installed on the first floor on July 29, 2025, and in the finished portion of the basement on August 6, 2025.
14. APUs shutdown on 8/21/2025 following completion of sampling.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 1 - Chemical Testing Results - Post-EPMM Installation Indoor Air
11 Morton Street
Somerville, Massachusetts

Sample Location:			11 Morton Street (continued)													
Sample Name:			11MORT-1		11MORT-F1		11MORT-B		11MORT-F1		11MORT-B		11MORT-F1		11MORT-B-Fin	
Sample Date:			4/8/25		5/7/25		5/7/25		7/16/25		7/16/25		8/21/25		8/21/25	
APU Status:			NA		NA		NA		NA		NA		ON		ON	
Units:			µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values (µg/m3)**														
Volatile Organic Compounds (VOCs)	TO-15															
1,1,1-Trichloroethane (TCA)		3	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020
1,2-Dichloroethane		0.09	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Carbon tetrachloride		0.54	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		1.4	<0.136	<0.020	0.203	0.030	0.217	0.032	0.149	0.022	0.149	0.022	<0.136	<0.020	<0.136	<0.020
trans-1,2-Dichloroethene		0.8	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	0.135	0.034	0.135	0.034	<0.079	<0.020	<0.079	<0.020
Trichloroethylene (TCE)		0.4	1.05	0.196	2.77	0.516	0.269	0.05	8.65	1.61	6.88	1.28	0.989	0.184	0.215	0.040

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. EPMM = Exposure Pathway Mitigation Measure.
6. NT= Not tested
7. MassDEP = Massachusetts Department of Environmental Protection
8. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.
9. Highlighted sample indicates most recent sampling rounds.
10. The samples from January 21, 2009 (11MORT-B1 and B2, and 11MORT-1A and 1B) were field duplicates of each other.
11. The laboratory notes for 11MORT-B from April 2025 indicate that the cansiter ran ambient
12. Art supplies used by the homeowner were removed on July 31, 2025
13. APU installed on the first floor on July 29, 2025, and in the finished portion of the basement on August 6, 2025.
14. APUs shutdown on 8/21/2025 following completion of sampling.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 1 - Chemical Testing Results - Post-EPMM Installation Indoor Air
11 Morton Street
Somerville, Massachusetts

Sample Location:			11 Morton Street (continued)													
Sample Name:			11MORT-B-Unfin		11MORT-F1		11MORT-B-Fin		11MORT-B-Unfin		11MORT-F1		11MORT-B-Fin		11MORT-B-Unfin	
Sample Date:			8/21/25		8/29/25		8/29/25		8/29/25		12/19/25		12/19/25		12/19/25	
APU Status:			ON		OFF		OFF		OFF		OFF		OFF		OFF	
Units:			µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values (µg/m3)**														
Volatile Organic Compounds (VOCs)	TO-15															
1,1,1-Trichloroethane (TCA)		3	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020
1,2-Dichloroethane		0.09	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Carbon tetrachloride		0.54	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		1.4	<0.136	<0.020	<0.136	<0.020	<0.136	<0.020	<0.136	<0.020	<0.136	<0.020	0.536	0.079	<0.136	<0.020
trans-1,2-Dichloroethene		0.8	<0.079	<0.020	<0.079	<0.020	0.083	0.021	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020
Trichloroethylene (TCE)		0.4	0.124	0.023	6.56	1.22	4.11	0.765	1.21	0.225	2.18	0.406	0.742	0.138	<0.107	<0.020

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. EPMM = Exposure Pathway Mitigation Measure.
6. NT= Not tested
7. MassDEP = Massachusetts Department of Environmental Protection
8. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.
9. Highlighted sample indicates most recent sampling rounds.
10. The samples from January 21, 2009 (11MORT-B1 and B2, and 11MORT-1A and 1B) were field duplicates of each other.
11. The laboratory notes for 11MORT-B from April 2025 indicate that the cansiter ran ambient
12. Art supplies used by the homeowner were removed on July 31, 2025
13. APU installed on the first floor on July 29, 2025, and in the finished portion of the basement on August 6, 2025.
14. APUs shutdown on 8/21/2025 following completion of sampling.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 2 - Chemical Testing Results Sub-Slab Soil Vapor
11 Morton Street
Somerville, Massachusetts

Sample Location:			11 Morton Street											
EPMM Status			Pre-EPMM				Post-EPMM							
Sample Name:			11 MORT-SS1		11 MORT-SS2		11-MORT-SV1		11-MORT-SV2		11-MORT-SV1		11-MORT-SV2	
Sample Date:			3/21/2007		3/21/2007		7/16/2025		7/16/2025		8/21/2025		8/21/2025	
Units:			ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values (µg/m^3)**												
Volatile Organic Compounds (VOCs)	TO-15													
1,1,1-Trichloroethane (TCA)		210	8.2	1.5	<1.1	<0.20	0.267	0.049	0.136	0.025	0.366	0.067	0.256	0.047
1,1-Dichloroethane		56	0.85	0.21	<0.81	<0.20	<0.081	<0.020	<0.081	<0.020	<0.081	<0.020	<0.081	<0.020
1,1-Dichloroethylene		56	1.2	0.31	<0.79	<0.20	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020
Tetrachloroethylene (PCE)		98	403	59.5	1.6	0.23	1.57	0.232	21.0	3.10	1.27	0.188	20.0	2.95
Trichloroethylene (TCE)		28	9.7	1.8	<1.1	<0.20	0.500	0.093	1.55	0.289	0.124	0.023	0.736	0.137
Vinyl Chloride		19	<0.51	<0.20	<0.51	<0.20	0.151	0.059	0.138	0.054	<0.051	<0.020	<0.051	<0.020

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. MassDEP = Massachusetts Department of Environmental Protection
6. EPMM = Exposure Pathway Mitigation Measure.
7. Highlighted sample indicates most recent sampling rounds.
8. Residential Sub-Slab Soil Gas Screening Values taken from MassDEP "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.
9. New soil vapor points installed in July 2025.

Table 2 - Chemical Testing Results Sub-Slab Soil Vapor
11 Morton Street
Somerville, Massachusetts

Sample Location:			11 Morton Street (cont.)							
EPMM Status			Post-EPMM (cont.)							
Sample Name:			11-MORT-SV1		11-MORT-SV2		11-MORT-SV1		11-MORT-SV2	
Sample Date:			8/29/2025		8/29/2025		12/19/2025		12/19/2025	
Units:			ug/m^3	ppbv	ug/m^3	ppbv	ug/m3	ppbv	ug/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values (µg/m^3)**								
Volatile Organic Compounds (VOCs)	TO-15									
1,1,1-Trichloroethane (TCA)		210	0.267	0.049	0.267	0.049	<0.109	<0.020	<0.109	<0.020
1,1-Dichloroethane		56	<0.081	<0.020	<0.081	<0.020	<0.081	<0.020	<0.081	<0.020
1,1-Dichloroethylene		56	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020
Tetrachloroethylene (PCE)		98	1.49	0.219	20.8	3.06	0.495	0.073	6.34	0.935
Trichloroethylene (TCE)		28	0.204	0.038	1.29	0.24	<0.107	<0.020	0.253	0.047
Vinyl Chloride		19	<0.051	<0.020	<0.051	<0.020	<0.051	<0.020	<0.051	<0.020

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. MassDEP = Massachusetts Department of Environmental Protection
6. EPMM = Exposure Pathway Mitigation Measure.
7. Highlighted sample indicates most recent sampling rounds.
8. Residential Sub-Slab Soil Gas Screening Values taken from MassDEP "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.
9. New soil vapor points installed in July 2025.

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582291
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582291-01
Client ID: 045163-11MORT-B-UNFIN
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 11:40
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 19:04
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	95		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	99		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582291
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582291-02
Client ID: 045163-11MORT-B-FIN
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 11:45
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 19:37
Analyst: TPH

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.138	0.020	--	0.742	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.079	0.020	--	0.536	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	99		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582291
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582291-03
Client ID: 045163-11MORT-F1
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 11:50
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 20:09
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.406	0.020	--	2.18	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	94		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	99		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582291
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582291-04
Client ID: 045163-11MORT-SV1
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 13:00
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/30/25 04:19
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.073	0.020	--	0.495	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	92		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	98		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582291
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582291-05
Client ID: 045163-11MORT-SV2
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 13:05
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/30/25 04:51
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.047	0.020	--	0.253	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.935	0.020	--	6.34	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	104		60-140

January 5, 2026
Project No. 04516-3

Gang Lian and Xiao-Ning Wang
5 Butterwick Lane
Old Lyme, CT 06371

Re: Indoor Air Sampling
19-19A Morton Street
Somerville, Massachusetts

Dear Gang Lian and Xiao-Ning Wang:

Thank you for permitting GEI Consultants, Inc. to conduct indoor air sampling at your property located at 19-19A Morton Street in Somerville, Massachusetts. Following sampling, we are providing you with a "Notice of Environmental Sampling Form (BWSC-123)," as required by the Massachusetts Department of Environmental Protection (MassDEP). We will also provide you with the results of the indoor air sampling after they are available from the analytical laboratory.

Thank you for your continued assistance. Please contact me at 781.721.4012 or igladstone@geiconsultants.com, if you have any questions.

Sincerely,

GEI CONSULTANTS, INC.

Ileen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President

Christopher Coner, CHMM
Project Manager

Enclosure

cc: Catherine Malagrida, UniFirst Corporation
MassDEP-NERO (as part of Status Report)

NMT/DJM/ISG/CC:bdp
\\geiconsultants.com\data\Data_Storage\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Morton Street\19-19A Morton\2025 Sampling Letters\3. December 2025 NOS\19-19A Morton Street NOS Ltr Dec 2025.docx

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville, MA Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: Gang Lian and Xiao-Ning Wang

2. Street Address: 5 Butterwick Lane

City/Town: Old Lyme, CT Zip Code: 06371

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☐ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☐ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: 19-19A Morton Street

City/Town: Somerville, MA Zip Code: 02145-4205

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action
☐ Release Abatement Measure
☐ Utility-related Abatement Measure
☐ Phase I Initial Site Investigation
☐ Phase II Comprehensive Site Assessment
☐ Phase III Feasibility Evaluation
☐ Phase IV Remedy Implementation Plan
☑ Phase V/Remedy Operation Status
☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☑ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____ (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Indoor Air Sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

January 29, 2026
Project 045163

Gang Lian and Ziao-Ning Wang
5 Butterwick Lane
Old Lyme, CT 06371

Re: Indoor Air Sampling Results
19-19A Morton Street
Somerville, Massachusetts

Dear Gang Lian and Ziao-Ning Wang:

On behalf of the UniFirst Corporation, GEI Consultants, Inc. collected indoor air samples on December 19, 2025, at your property at 19-19A Morton Street to evaluate the potential for vapor intrusion.

On December 19, 2025, one indoor air sample was collected each on the first floor and in the basement. The samples were collected over a 24-hour period. Attached is a summary table of the chemicals detected in the indoor air samples (Table 1), and the laboratory data sheets for the recent sampling. A Massachusetts Department of Environmental Protection (MassDEP) Notice of Environmental Sampling Form (BWSC123) is also attached.

There were no detected chlorinated volatile organic compounds (CVOCs) in the samples, indicative of a condition of No Significant Risk (NSR) existing.

Individuals and public officials may request additional public involvement activities under the Massachusetts Contingency Plan (MCP; 310 CMR 40.1403(9) and 40.1404). The property owner may also request additional documentation, such as that listed at 310 CMR 40.0017(3), associated with the above-referenced samples. We will provide such additional documentation within 30 days of our receipt of such a request.

We appreciate your continued cooperation throughout the sampling process. If you have any questions regarding the sampling results, please do not hesitate to contact me at 781.721.4012 or igladstone@geiconsultants.com.

Sincerely,

GEI Consultants, Inc

Ileen S. Gladstone, P.E, LSP
Senior Vice President

Christopher O. Coner, CHMM
Project Manager

NMT/DJM:jam
\\geiconsultants.com\data\Data_Storage\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Morton Street\19-19A Morton\2025 Sampling Letters\4. December 2025 Results\19-19A Morton Dec Results Ltr.docx
Attachments
cc: Catherine Malagrida, UniFirst Corporation
MassDEP via Status Report

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville, MA Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: Gang Lian and Xiao-Ning Wang

2. Street Address: 5 Butterwick Lane

City/Town: Old Lyme, CT Zip Code: 06371

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☑ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☑ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: 19-19A Morton Street

City/Town: Somerville, MA Zip Code: 02145-4205

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action
☐ Release Abatement Measure
☐ Utility-related Abatement Measure
☐ Phase I Initial Site Investigation
☐ Phase II Comprehensive Site Assessment
☐ Phase III Feasibility Evaluation
☐ Phase IV Remedy Implementation Plan
☑ Phase V/Remedy Operation Status
☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☑ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other _____ (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Indoor Air Sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Table 1 - Chemical Testing Results - Pre- and Post-EPMM Indoor Air
19-19A Morton Street
Somerville, Massachusetts

Location Name:			Pre-EPMM 19-19A Morton Street															
Sample Name:			19MORT-1 7/2/07		19MORT-B 7/2/07		19MORT-1 4/4/08		19MORT-B 4/4/08		19MORT-1 8/18/08		19MORT-B 8/18/08		19MORT-1 1/13/09		19MORT-B 1/13/09	
Sample Date:																		
Units:			µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values**																
Volatile Organic Compounds (VOCs)	**TO-15**																	
1,2-Dichloroethane		0.09	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	4.9	1.2	0.73 J	0.18 J	< 0.81	< 0.20	< 0.81	< 0.20
Carbon tetrachloride		0.54	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	0.88 J	0.14 J	0.69 J	0.11 J	0.63 J	0.10 J	< 1.3	< 0.20
Tetrachloroethylene (PCE)		1.4	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	0.68 J	0.10 J	< 1.4	< 0.20	< 1.4	< 0.20	6.0	0.89	8.8	1.3

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. NT = Not tested.
8. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
9. Highlighted samples indicate most recent round.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 1 - Chemical Testing Results - Pre- and Post-EPMM Indoor Air
19-19A Morton Street
Somerville, Massachusetts

		Location Name:	Post-EPMM 19-19A Morton Street															
		Sample Name:	19MORT-1		19MORT-B		19MORT-1		19MORT-B		19MORT-1		19MORT-B		19MORT-1		19MORT-B	
		Sample Date:	9/3/09		9/3/09		1/29/10		1/29/10		12/7/10		12/7/10		4/10/11		4/10/11	
		Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values**																
Volatile Organic Compounds (VOCs)	**TO-15**																	
1,2-Dichloroethane		0.09	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	NT	NT	NT	NT	NT	NT	NT	NT
Carbon tetrachloride		0.54	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		1.4	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	3.1	0.45	4.8	0.71	< 1.4	< 0.20	2.2	0.33

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. NT = Not tested.
8. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
9. Highlighted samples indicate most recent round.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 1 - Chemical Testing Results - Pre- and Post-EPMM Indoor Air
19-19A Morton Street
Somerville, Massachusetts

Location Name:			Post-EPMM 19-19A Morton Street (cont.)											
Sample Name:			19MORT-1 3/2/12		19MORT-B 3/2/12		19MORT-1 2/27/25		19MORT-B 2/27/25		19MORT-1 12/19/25		19MORT-B 12/19/25	
Sample Date:														
Units:			µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values**												
Volatile Organic Compounds (VOCs)	**TO-15**													
1,2-Dichloroethane		0.09	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Carbon tetrachloride		0.54	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		1.4	< 1.4	< 0.20	1.0 J	0.15 J	0.136	0.020	0.142	0.021	<0.136	<0.020	<0.136	<0.020

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. MassDEP = Massachusetts Department of Environmental Protection
6. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
7. NT = Not tested.
8. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation, and Closure" dated October 2016.
9. Highlighted samples indicate most recent round.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582290
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582290-01
Client ID: 045163-19MORT-1
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 07:05
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 22:53
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	92		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	97		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582290
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582290-02
Client ID: 045163-19MORT-B
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 07:10
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 23:27
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	96		60-140

January 5, 2026
Project No. 04516-3

Mr. Keith Glover
Wooden Teeth, LLC
17 Village Street, Unit 1
Somerville, MA 02145

Re: Soil Vapor Sampling
121 Washington Street
Somerville, Massachusetts

Dear Mr. Glover:

Thank you for permitting GEI Consultants, Inc. to conduct soil vapor sampling at your property located at 121 Washington Street in Somerville, Massachusetts. Following sampling, we are providing you with a "Notice of Environmental Sampling Form (BWSC-123)," as required by the Massachusetts Department of Environmental Protection (MassDEP). We will also provide you with the results of the soil vapor sampling after they are available from the analytical laboratory.

Thank you for your continued assistance. Please contact me at 781.721.4012 or igladstone@geiconsultants.com, if you have any questions.

Sincerely,

GEI CONSULTANTS, INC.

Ileen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President

Christopher Coner, CHMM
Project Manager

Enclosure

cc: Catherine Malagrida, UniFirst Corporation
MassDEP-NERO (as part of Status Report)

DJM/ISG/CC:bdp
\\geiconsultants.com\data\Data_Storage\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Washington Street\121 Washington\2025 Sampling Letters\1. December 2025 NOS\121 Wash Street NOS Ltr Dec 2025.docx

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: Keith Glover

2. Street Address: 17 Village Street, Unit 1

City/Town: Somerville, MA Zip Code: 02145

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☐ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☐ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: 121 Washington Street

City/Town: Somerville, MA Zip Code: 02145-4205

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action
☐ Release Abatement Measure
☐ Utility-related Abatement Measure
☐ Phase I Initial Site Investigation
☐ Phase II Comprehensive Site Assessment
☐ Phase III Feasibility Evaluation
☐ Phase IV Remedy Implementation Plan
☑ Phase V/Remedy Operation Status
☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☑ residential ☑ commercial ☐ industrial ☐ school/playground ☐ Other _____ (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Sub-slab soil vapor monitoring point installation and sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

January 29, 2026
Project 045163

Mr. Keith Glover
Wooden Teeth, LLC
17 Village Street, Unit 1
Somerville, MA 02145

Re: Sub-Slab Soil Vapor Sampling Results
121 Washington Street
Somerville, Massachusetts

Dear Mr. Glover:

On behalf of the UniFirst Corporation, GEI Consultants, Inc. collected sub-slab soil vapor samples on December 12, 2025, at your property at 121 Washington Street to evaluate the potential for vapor intrusion.

On December 12, 2025, GEI installed two sub-slab soil vapor monitoring points (SV1 and SV2) within the building footprint. GEI collected two soil vapor samples from the newly installed sub-slab monitoring points to evaluate the concentrations of chlorinated volatile organic compounds (CVOCs) in soil vapor beneath the building. Attached is a summary table of the chemicals detected in the soil vapor samples (Table 1) and the laboratory data sheets for the recent sampling. A Massachusetts Department of Environmental Protection (MassDEP) Notice of Environmental Sampling Form (BWSC123) is also attached.

Tetrachloroethylene (PCE) was detected in both samples at 0.400 µg/m^3 and 0.597 µg/m^3 in SV1 and SV2, respectively. Trichloroethylene (TCE) was detected in SV1 at 0.403 µg/m^3. 1,1,1-Trichloroethane was detected in SV2 at 0.131 µg/m^3. No other CVOCs were detected above laboratory reporting limits in the samples.

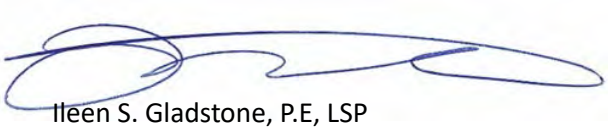
The detected soil vapor concentrations are below the applicable MassDEP residential and commercial soil vapor screening values. Soil vapor concentrations that are below the soil vapor screening values generally indicate that the vapor intrusion pathway is unlikely to be of concern under current conditions.

Individuals and public officials may request additional public involvement activities under the Massachusetts Contingency Plan (MCP; 310 CMR 40.1403(9) and 40.1404). The property owner may also request additional documentation, such as that listed at 310 CMR 40.0017(3), associated with the above-referenced samples. We will provide such additional documentation within 30 days of our receipt of such a request.

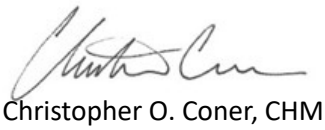
We appreciate your continued cooperation throughout the sampling process. If you have any questions regarding the sampling results, please do not hesitate to contact me at 781.721.4012 or igladstone@geiconsultants.com.

Sincerely,

GEI Consultants, Inc



Ileen S. Gladstone, P.E, LSP
Senior Vice President



Christopher O. Coner, CHMM
Project Manager

DJM:jam
\\geiconsultants.com\data\Data_Storage\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Washington Street\121 Washington\2025 Sampling Letters\2. December 2025 Results\121 Wash Dec SV Results Ltr.docx

Attachments

cc: Catherine Malagrida, UniFirst Corporation
MassDEP via Status Report

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 50 Tufts Street

City/Town: Somerville Zip Code: 02145-4129

B. This notice is being provided to the following party:

1. Name: Keith Glover - Wooden Teeth, LLC

2. Street Address: 17 Village Street, Unit 1

City/Town: Somerville, MA Zip Code: 02145

C. This notice is being given to inform its recipient (the party listed in Section B):

☑ 1. That environmental sampling ~~will be~~/has been conducted at property owned by the recipient of this notice.

☑ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☑ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling ~~will be~~/has been conducted:

1. Street Address: 121 Washington Street

City/Town: Somerville, MA Zip Code: 02145-4205

2. MCP phase of work during which the sampling ~~will be~~/has been conducted:

☐ Immediate Response Action
☐ Release Abatement Measure
☐ Utility-related Abatement Measure
☐ Phase I Initial Site Investigation
☐ Phase II Comprehensive Site Assessment
☐ Phase III Feasibility Evaluation
☐ Phase IV Remedy Implementation Plan
☑ Phase V/Remedy Operation Status
☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Other _____ (specify)

3. Description of property where sampling ~~will be~~/has been conducted:

☑ residential ☑ commercial ☐ industrial ☐ school/playground ☐ Other _____ (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Sub-slab soil vapor monitoring point installation and sampling

E. Contact information related to the party providing this notice:

Contact Name: Ileen Gladstone, P.E., LSP, LEED AP

Street Address: GEI Consultants, Inc., 400 Unicorn Park Drive

City/Town: Woburn, MA Zip Code: 01801-3341

Telephone: (781) 721-4012 Email: igladstone@geiconsultants.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 23246

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at http://www.mass.gov/eea/agencies/massdep/cleanup. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See http://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Table 1 - Chemical Testing Results - Sub-Slab Soil Vapor
121 Washington Street
Somerville, Massachusetts

				Location Name:	121 Washington Street		121 Washington Street			
				Sample Name:	121 Wash-SS1		121Wash-SV1		121Wash-SV2	
				Sample Date:	4/11/2007		12/12/2025		12/12/2025	
				Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**MassDEP Residential Sub-Slab Soil Gas Screening Values (µg/m^3)**	**MassDEP Commercial Sub-Slab Soil Gas Screening Values (µg/m^3)**							
Volatile Organic Compounds (VOCs)	TO-15									
Tetrachloroethylene (PCE)		98	290		12	1.7	0.400	0.059	0.597	0.088
1,1,1-Trichloroethane		210	310000		0.51 J	0.093 J	< 0.109	< 0.020	0.131	0.024
Trichloroethylene (TCE)		28	120		< 1.1	< 0.20	0.403	0.075	< 0.107	< 0.020

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. < = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. MassDEP = Massachusetts Department of Environmental Protection
6. Results highlighted are the most recent samples collected.
7. Residential Sub-Slab Soil Gas Screening Values taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.
8. Commercial Sub-Slab Soil Gas Screening Values taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.
9. The sample from April 2007 was collected prior to redevelopment of the 121 Washington Street property.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

Project Name: 50 TUFTS ST
Project Number: 045163

Lab Number: L2579871
Report Date: 12/22/25

SAMPLE RESULTS

Lab ID: L2579871-01
Client ID: 045163-121WASH-SV-1
Sample Location: SOMERVILLE, MA

Date Collected: 12/12/25 14:35
Date Received: 12/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/21/25 04:58
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.075	0.020	--	0.403	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.059	0.020	--	0.400	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	97		60-140
bromochloromethane	102		60-140
chlorobenzene-d5	97		60-140

Project Name: 50 TUFTS ST
Project Number: 045163

Lab Number: L2579871
Report Date: 12/22/25

SAMPLE RESULTS

Lab ID: L2579871-02
Client ID: 045163-121WASH-SV-2
Sample Location: SOMERVILLE, MA

Date Collected: 12/12/25 14:37
Date Received: 12/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/21/25 05:38
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.024	0.020	--	0.131	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.088	0.020	--	0.597	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	99		60-140
bromochloromethane	102		60-140
chlorobenzene-d5	105		60-140

December 18, 2025
Project 04516-3

CERTIFIED MAIL 9171 9690 0935 0192 1952 39

Xinjian Qiao, Trustee
46 Gibson Street
Medford, MA 02155-4831

Re: Property Access for Annual EPMM Inspection and Indoor Air Sampling
4 Morton Street
Somerville, Massachusetts

Dear Mr. Qiao:

On behalf of UniFirst Corporation, I am writing to request access to your property at 4 Morton Street to perform the annual inspection of the exposure pathway mitigation measure (EPMM) installed in the basement. We previously sent a letter on August 16, 2022, March 13, 2023, August 16, 2023, October 9, 2023, January 24, 2024, and January 14, 2025.The EPMM consists of a sub-slab vapor barrier, ventilation piping with extraction points beneath the basement slab, and sealing the basement floor and the below grade portion of the walls. The EPMM was installed to inhibit vapors from intruding through the building foundation. We typically inspect the EPMM annually to confirm that the components are intact and functioning as intended. GEI would also like to conduct additional indoor air testing at your property at no expense to you, at the same time as the annual inspection. The testing will involve placement of an air collection canister or canisters within your home for approximately 24 hours. If you agree to provide this access, GEI would visit your property twice—once to drop off the canister(s) and once to pick them up and perform the annual inspection.

You may recall that we conducted indoor air sampling at your property located at 4 Morton Street to assess environmental conditions there. Indoor air testing was previously conducted at your property in February 2005, March 2006, July 2006, October 2006, and December 2006. Chlorinated VOCs were detected above the laboratory detection limit in one or more of the indoor air samples collected from your property. The results of the historical sampling are provided in the attached Table 1.

In connection with our ongoing work with MassDEP, we are reaching out to homeowners in the area where recent indoor air sampling data is not available to request access to conduct additional indoor air monitoring to assess current conditions. This request is not associated with a new release or any specific change in conditions, but instead it is intended to confirm that long-term risks associated with the 50 Tufts Street Site continue to be appropriately managed.

Our records indicate that your preferred method for scheduling EPMM inspections was by email at qiaox2001@yahoo.com or xjq220@gmail.com and your home and work numbers were 617-905-5158 and 781-395-4358, respectively. It appears that the home and work phone numbers we have for you are no longer working numbers and we received no response to our email. Please inform me if you have an alternative phone number or email for scheduling future EPMM inspections.

Please contact Christopher Coner at 781-721-4135 or cconer@geiconsultants.com, to schedule the annual EPMM inspection of the basement, if you have any questions, or would like additional information.

Sincerely,

GEI CONSULTANTS, INC.

Ileen S. Gladstone, P.E, LSP
Senior Vice President

Christopher O. Coner, CHMM
Project Manager

ISG/COC:jam
\\geiconsultants.com\data\Data_Storage\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Morton Street\4 Morton\EPMM Inspection Access\2025.12 letters\4 Morton 12-2025 EPEM Inspection Access Letter.docx

Attachments
cc: Catherine Malagrida, UniFirst Corporation
MassDEP via Status Report

Table 1
Chemical Testing Results - Post-EPMM Installation Indoor Air
4 Morton Street
Somerville, Massachusetts

	Sample Location:	4 Morton Street							
	Sample Name:	4MORT-1		4MORT-B		4MORT-1		4MORT-B	
	Sample Date:	3/7/09		3/7/09		8/10/09		8/10/09	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon Tetrachloride		0.61 J	0.097 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
1,2-Dichloroethane		< 0.81	< 0.20	< 1.8	< 0.20	0.65 J	0.16 J	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	18	2.6	< 1.4	< 0.20	1.4	0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. EPMM = Exposure Pathway Mitigation Measure.
6. No pre-EPMM indoor air samples were collected. The EPMM was installed based on sub-slab soil vapor testing results.
7. Samples collected after August 2009 were collected over a 24-hour period ending on the date shown.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 1
Chemical Testing Results - Post-EPMM Installation Indoor Air
4 Morton Street
Somerville, Massachusetts

	Sample Location:	4 Morton Street (continued)							
	Sample Name:	4MORT-1		4MORT-B		4MORT-1		4MORT-B	
	Sample Date:	3/4/10		3/4/10		12/5/10		12/5/10	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon Tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	NT	NT	NT	NT
1,2-Dichloroethane		2.2	0.55	< 0.81	< 0.20	NT	NT	NT	NT
Tetrachloroethylene (PCE)		< 1.4	< 0.20	5.7	0.84	<1.4	<0.20	15	2.2

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. EPMM = Exposure Pathway Mitigation Measure.
6. No pre-EPMM indoor air samples were collected. The EPMM was installed based on sub-slab soil vapor testing results.
7. Samples collected after August 2009 were collected over a 24-hour period ending on the date shown.

Qualifying Note:
J The reported result is below the laboratory reporting limit and is estimated.

Table 1
Chemical Testing Results - Post-EPMM Installation Indoor Air
4 Morton Street
Somerville, Massachusetts

	Sample Location:	4 Morton Street (continued)							
	Sample Name:	4 MORT-1		4 MORT-B		4 MORT-B		4 MORT-B	
	Sample Date:	7/15/11		7/15/11		12/13/11		3/21/12	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon Tetrachloride		NT	NT	NT	NT	NT	NT	NT	NT
1,2-Dichloroethane		NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		<1.4	<0.20	14	2.00	12	1.8	18	2.6

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. EPMM = Exposure Pathway Mitigation Measure.
6. No pre-EPMM indoor air samples were collected. The EPMM was installed based on sub-slab soil vapor testing results.
7. Samples collected after August 2009 were collected over a 24-hour period ending on the date shown.

Qualifying Note:
J The reported result is below the laboratory reporting limit and is estimated.

December 5, 2025
Project 045163

CERTIFIED MAIL: 9489 0178 9820 3037 2302 09

Mr. Avani Campos
9 Tufts Street
Somerville, MA 02145

Re: Property Access for Indoor Air Sampling
9 Tufts Street
Somerville, Massachusetts

Dear Mr. Campos:

As you may recall, GEI Consultants (GEI) has been working for years in the neighborhood to manage environmental risks associated with the historical release of chlorinated volatile organic compounds (VOCs) to soil and groundwater on the nearby 50 Tufts Street Property that was first reported in 2002. GEI's work is being conducted under the Massachusetts Contingency Plan (MCP) overseen by the Massachusetts Department of Environmental Protection (MassDEP).

You may also recall that we conducted indoor air sampling at your property located at 9 Tufts Street to assess environmental conditions there. Indoor air testing was previously conducted at your property in February 2005, March 2006, July 2006, October 2006, and December 2006. Chlorinated VOCs were detected above the laboratory detection limit in one or more of the indoor air samples collected from your property. The results of the historical sampling are provided in the attached Table 1.

In connection with our ongoing work with MassDEP, we are reaching out to homeowners in the area where recent indoor air sampling data is not available to request access to conduct additional indoor air monitoring to assess current conditions. This request is not associated with a new release or any specific change in conditions, but instead it is intended to confirm that long-term risks associated with the 50 Tufts Street Site continue to be appropriately managed.

If you are interested in more information regarding GEI's work, reports documenting response actions conducted at the 50 Tufts Street Site are available for review at the MassDEP Northeast Regional Office in Woburn, Massachusetts. A map depicting the extent of the "Site" is attached and marked as "Figure 1." Records also are accessible online at the MassDEP Searchable Sites database (https://eeaonline.eea.state.ma.us/portal/dep/wastesite/). Additionally, local public document repositories have been established at the Somerville Central Public Library and at the City of Somerville Clerk's Office. The MassDEP release tracking number (RTN) for the Site is RTN 3-23246.

GEI would like to conduct additional indoor air testing at your property at no expense to you. The testing will involve placement of an air collection canister or canisters within your home for approximately 24 hours. If you agree to provide this access, GEI would visit your property twice—once to drop off the canister(s) and once to pick them up. Please contact me at igladstone@geiconsultants.com or 781.721.4012 to answer any of your questions and to coordinate this access.. All results of our testing will be promptly shared with you.

Sincerely,

GEI CONSULTANTS, INC

Ileen S. Gladstone, P.E, LSP
Senior Vice President

Christopher O. Coner, CHMM
Project Manager

ISG/COC:vjb
\\geiconsultants.com\data\Data_Storage\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Tufts Street\9 Tufts\2025 Access Request Letter\9 Tufts Street Access Request Letter.docx

Attachments
cc: Catherine Malagrida, UniFirst Corporation
MassDEP via Status Report

Table 1 - Chemical Testing Results - Indoor Air (9 Tufts Street)
50 Tufts Street
Somerville, Massachusetts

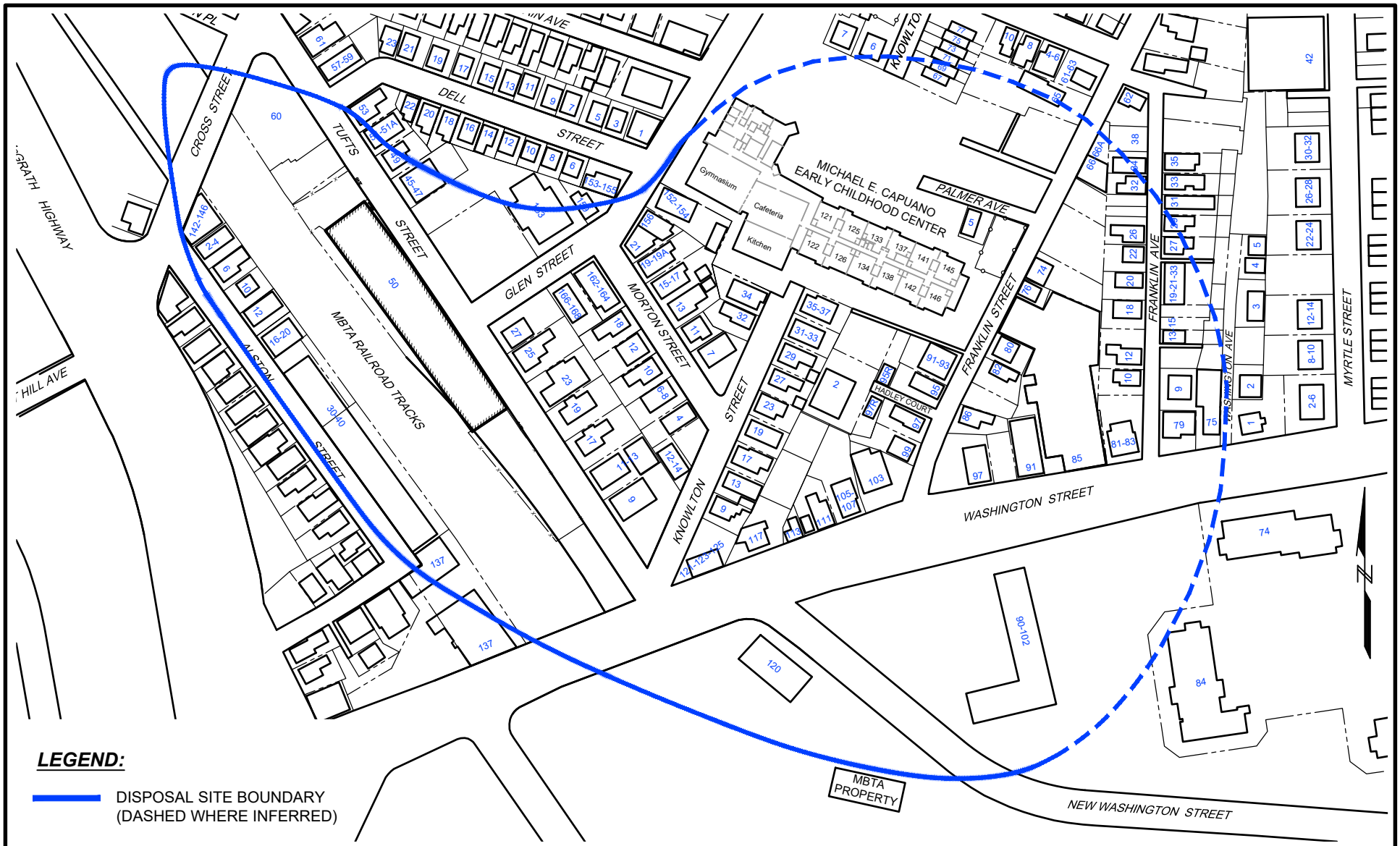
	Sample Location:	Basement										First floor															
	Sample Name:	IA-6		9TUFTS-BR		9TUFTS-BR		9TUFTS-BR		9 TUFTS-BR		IA-5		9TUFTS-1L		9TUFTS-1L		9TUFTS-1L		9 TUFTS-1L		9TUFTS-1R		9TUFTS-1R		9TUFTS-1R	
	Sample Date:	2/23/05		3/23/06		7/24/06		10/2/06		12/15/06		2/23/05		3/23/06		7/24/06		10/2/06		12/15/06		3/23/06		7/24/06		10/2/06		12/15/06	
	Sampled By:	Shaw		GEI		GEI		GEI		GEI		Shaw		GEI		GEI		GEI		GEI		GEI		GEI		GEI		GEI	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**																												
Volatile Organic Compounds (VOCs)	**TO-15**																												
Chloroform		0.54 J	0.11 J	1.3	0.26	1.2	0.24	NT	NT	NT	NT	1.2	0.25	<0.98 J	<0.20 J	<0.88 J	<0.18 J	NT	NT	NT	NT	< 0.98	< 0.20	2.3	0.47	NT	NT	NT	NT
Chloromethane		0.91	0.44	<1.1 L	0.53 L	0.95	0.46	NT	NT	NT	NT	1	0.49	1.4 L	0.69 L	1	0.5	NT	NT	NT	NT	1.4 L	< 0.69 L	1.1	0.55	NT	NT	NT	NT
Methylene Chloride		0.56 J	0.16 J	<1.9 J+	<0.55 J+	<11 J+	<3.1 J+	NT	NT	NT	NT	0.59 J	0.17 J	<1.8 J+	<0.52 J+	<4.2 J+	<1.2 J+	NT	NT	NT	NT	< 1.3 J+	< 0.36 J+	< 6.6 J+	< 1.9 J+	NT	NT	NT	NT
Tetrachloroethylene (PCE)		1.3 J	0.19 J	2.4	0.35	3.1	0.45	16	2.4	2.2	0.32	1.8	0.27	<1.4	<0.20	<1.2 J	<0.18 J	3.5	0.52	1.9	0.28	< 1.4 J	< 0.20 J	2	0.29	6.2	0.91	< 0.64 J	< 0.095 J

General Notes:

1. Analytes detected in at least one sample are reported here.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT= Not tested
6. NS= No standard established
7. Shaw Environmental collected samples on behalf of the DEP, samples collected 2/23/05.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
L The reported result is estimated because the calculated relative percent difference (RPD) between a sample and the matrix duplicate was above the quality control limit specified in the Quality Assurance Project Plan (QAPP).
J+ The reported result is estimated.



LEGEND:

DISPOSAL SITE BOUNDARY
(DASHED WHERE INFERRED)

0 200 400

SCALE, FEET

50 Tufts Street
Somerville, Massachusetts

UniFirst Corporation
Wilmington, Massachusetts

GEI Consultants

SITE SKETCH

Project 04516-3

November 2025 Fig . 1

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December 5, 2025
Project 045163

CERTIFIED MAIL: 9489 0178 9820 3037 2301 48

Mr. David J. Danzilio
Ms. Lucille Danzilio
Mr. David M. Danzilio
11-13 Tufts Street, Unit 1
Somerville, MA 02145

Re: Summary of Indoor Air Sampling and Environmental Conditions
11-13 Tufts Street
Somerville, Massachusetts

Dear Mr. Danzilio, Ms. Danzilio, and Mr. Danzilio:

We understand that you are the owners of the property located at 11-13 Tufts Street, Unit 1, in Somerville, Massachusetts. GEI Consultants, Inc. (GEI) has been working for years in the neighborhood to manage environmental risks associated with the historical release of chlorinated volatile organic compounds (VOCs) to soil and groundwater on the nearby 50 Tufts Street Property that was first reported in 2002. GEI's work is being conducted under the Massachusetts Contingency Plan (MCP) overseen by the Massachusetts Department of Environmental Protection (MassDEP). The purpose of this letter is to summarize the environmental conditions in the area, share information regarding prior environmental evaluation of your property, and to request your permission to collect additional data from your property. This request is not associated with a new release or any specific change in conditions, but instead it is intended to confirm that long-term risks associated with the 50 Tufts Street Site continue to be appropriately managed.

A release of chlorinated VOCs on the 50 Tufts Street Property was first reported to the MassDEP in 2002. GEI is an environmental consulting firm that has been working on response actions at 50 Tufts Street and in the neighborhood since 2004. Numerous studies have been conducted relating to the 50 Tufts Street Site, and response actions are currently being conducted under the MCP process overseen by MassDEP.

If you are interested in more information regarding GEI's work, reports documenting response actions conducted at the 50 Tufts Street Site are available for review at the MassDEP Northeast Regional Office in Woburn, Massachusetts. A map depicting the extent of the "Site" is attached and marked as "Figure 1." Records are accessible online at the MassDEP Searchable Sites database (https://eeaonline.eea.state.ma.us/portal/dep/wastesite/). Additionally, local public document repositories have been established at the Somerville Central Public Library and at the City of Somerville Clerk's Office. The MassDEP release tracking number (RTN) for the Site is RTN 323246.

Indoor air testing was previously conducted at your property in February 2005, March 2006, June 2006, September 2006, and December 2006. Chlorinated VOCs were detected above the laboratory detection limit in one or more of the indoor air samples collected from your property. The results of the sampling are in the attached Table 1.

GEI would like to conduct additional indoor air testing at your property at no expense to you. The testing will involve the placement of an air collection canister or canisters within your home for approximately 24 hours. If you agree to provide this access, GEI would visit your property twice—once to drop off the canister(s) and once to pick them up. Please contact me at igladstone@geiconsultants.com or 781.721.4012 to answer any of your questions and to coordinate this access. All results of our testing will be promptly shared with you.

Sincerely,

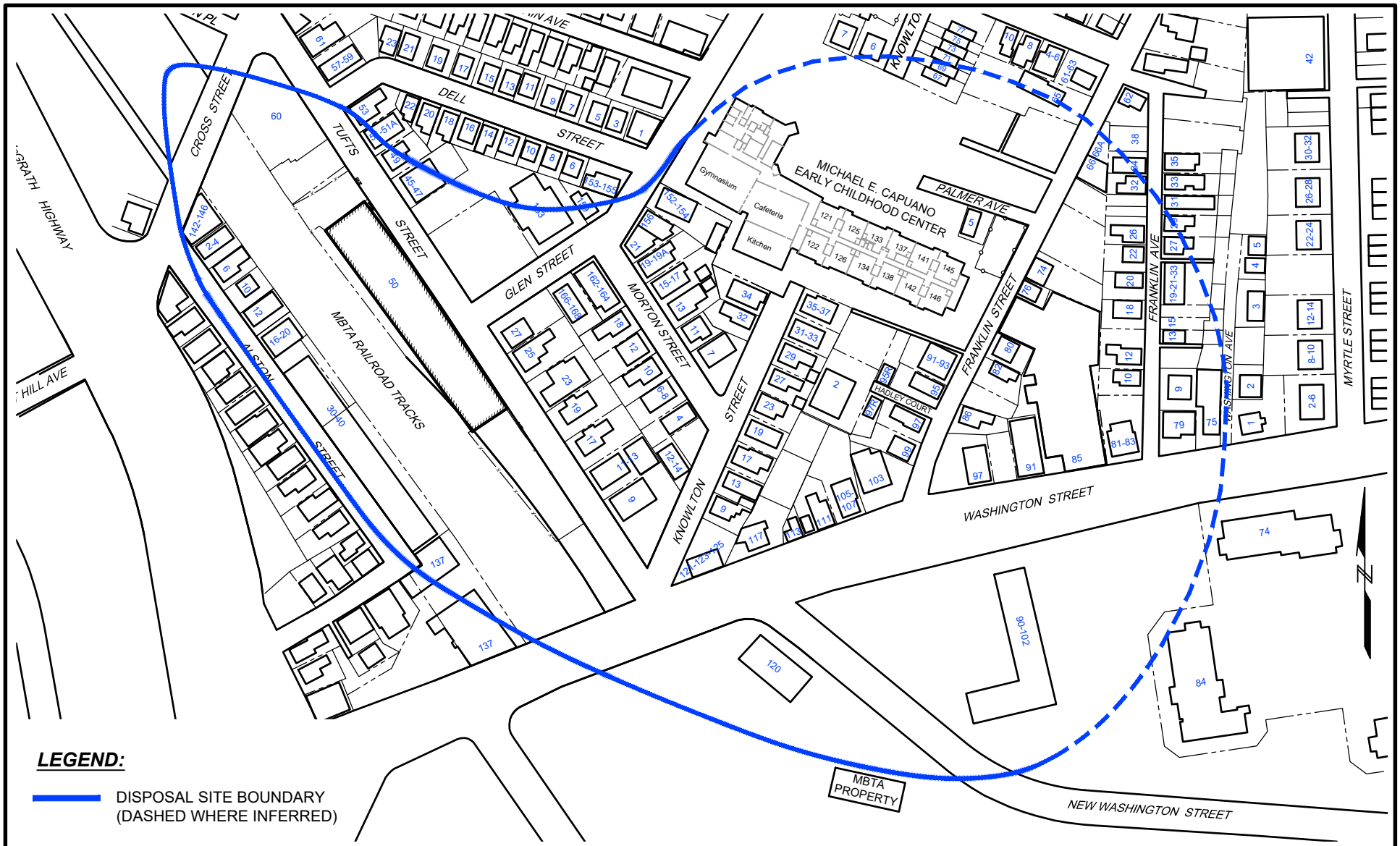
GEI CONSULTANTS, INC.

Ileen S. Gladstone, P.E, LSP
Senior Vice President

Christopher O. Coner, CHMM
Project Manager

ISG/COC:vjb
\\geiconsultants.com\data\Data_Storage\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Tufts Street\11-13 Tufts\2025 Access Request Letter\Unit 1\11-13 Tufts Street Env Conditions Letter, Unit 1.docx

Attachments
cc: Catherine Malagrida, UniFirst Corporation
MassDEP via Status Report



LEGEND:

DISPOSAL SITE BOUNDARY
(DASHED WHERE INFERRED)

0 200 400

SCALE, FEET

50 Tufts Street
Somerville, Massachusetts

UniFirst Corporation
Wilmington, Massachusetts

GEI Consultants

SITE SKETCH

Project 04516-3

November 2025 Fig . 1

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Table 1 - Chemical Testing Results - Indoor Air (11-13 Tufts Street)
50 Tufts Street
Somerville, Massachusetts

Sample Location:		Basement										First floor									
Sample Name:		IA-2		11/13TUFTS-B		11/13 TUFTS-B		11/13TUFTS-B		11/13 TUFTS-B		IA-1		11/13TUFTS-1		11/13 TUFTS-1		11/13TUFTS-1		11/13 TUFTS-1	
Sample Date:		2/23/05		3/24/06		6/29/06		9/28/06		12/15/06		2/23/05		3/24/06		6/29/06		9/28/06		12/15/06	
Sampled By:		Shaw		GEI		GEI		GEI		GEI		Shaw		GEI		GEI		GEI		GEI	
Units:		µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**																				
Volatile Organic Compounds (VOCs)	**TO-15**																				
1,1,1-Trichloroethane (TCA)		< 1.1	< 0.20	<1.1	<0.20	<1.1	<0.20	<1.1	<0.20	<1.1	<0.20	< 1.1	< 0.20	<1.1	<0.20	0.71 J	0.13 J	<1.1	<0.20	<1.1	<0.20
1,1,2,2-Tetrachloroethane		1	0.29	<1.4	<0.20	<1.4	<0.20	<1.4	<0.20	<1.4	<0.20	0.8	0.23	<1.4	<0.20	<1.4	<0.20	<1.4	<0.20	<1.4	<0.20
Carbon Tetrachloride		< 1.3	< 0.20	<1.3	<0.20	0.69 J	0.11 J	<1.3	<0.20	0.69 J	0.11 J	< 1.3	< 0.20	<1.3	<0.20	0.69 J	0.11 J	<1.3	<0.20	0.62 J	0.099 J
Chloroform		< 0.98	< 0.20	<0.98	<0.20	<0.98	<0.20	NT	NT	NT	NT	2.8	0.57	<0.98	<0.20	1.5	0.3	NT	NT	NT	NT
Chloromethane		0.81	0.39	1.4 L	0.68 L	1.7	0.8	NT	NT	NT	NT	0.99	0.48	1.4 L	0.70 L	2.7	1.3	NT	NT	NT	NT
Methylene Chloride		< 0.81	< 0.20	4.5 J+	<1.3 J+	5.2 J+	1.5 J+	NT	NT	NT	NT	< 0.81	< 0.20	1.2 J+	0.34 J+	2.7 J+	0.77 J+	NT	NT	NT	NT
Tetrachloroethylene (PCE)		1.8	0.26	<1.4	<0.20	2.4	0.36	0.88 J	0.13 J	2.2	0.33	1.0 J	0.15 J	<1.4	<0.20	1.8	0.27	1.5	0.22	<1.4	<0.20

General Notes:

1. Analytes detected in at least one sample are reported here.
2. µg/m3 = micrograms per cubic meter.
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5. NT= Not tested
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7. Shaw Environmental collected samples on behalf of the DEP, samples collected 2/23/05.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
L The reported result is estimated because the calculated relative percent difference (RPD) between a sample and the matrix duplicate was above the quality control limit specified in the Quality Assurance Project Plan (QAPP).
J+ The reported result is estimated.

December 5, 2025
Project 045163

CERTIFIED MAIL: 9489 0178 9820 3037 2301 55

Mr. Philip Alves
Ms. Cayla Machleit
11-13 Tufts Street, Unit 2
Somerville, MA 02145

Re: Summary of Indoor Air Sampling and Environmental Conditions
11-13 Tufts Street
Somerville, Massachusetts

Dear Mr. Alves and Ms. Machleit:

We understand that you are the owners of the property located at 11-13 Tufts Street, Unit 2, in Somerville, Massachusetts. GEI Consultants, Inc. (GEI) has been working for years in the neighborhood to manage environmental risks associated with the historical release of chlorinated volatile organic compounds (VOCs) to soil and groundwater on the nearby 50 Tufts Street Property that was first reported in 2002. GEI's work is being conducted under the Massachusetts Contingency Plan (MCP) overseen by the Massachusetts Department of Environmental Protection (MassDEP). The purpose of this letter is to summarize the environmental conditions in the area, share information regarding prior environmental evaluation of your property, and to request your permission to collect additional data from your property. This request is not associated with a new release or any specific change in conditions, but instead it is intended to confirm that long-term risks associated with the 50 Tufts Street Site continue to be appropriately managed.

A release of chlorinated VOCs on the 50 Tufts Street Property was first reported to the MassDEP in 2002. GEI is an environmental consulting firm that has been working on response actions at 50 Tufts Street and in the neighborhood since 2004. Numerous studies have been conducted relating to the 50 Tufts Street Site, and response actions are currently being conducted under the MCP process overseen by MassDEP.

If you are interested in more information regarding GEI's work, reports documenting response actions conducted at the 50 Tufts Street Site are available for review at the MassDEP Northeast Regional Office in Woburn, Massachusetts. A map depicting the extent of the "Site" is attached and marked as "Figure 1." Records are accessible online at the MassDEP Searchable Sites database (https://eeaonline.eea.state.ma.us/portal/dep/wastesite/). Additionally, local public document repositories have been established at the Somerville Central Public Library and at the City of Somerville Clerk's Office. The MassDEP release tracking number (RTN) for the Site is RTN 323246.

Indoor air testing was previously conducted at your property in February 2005, March 2006, June 2006, September 2006, and December 2006. Chlorinated VOCs were detected above the laboratory detection

limit in one or more of the indoor air samples collected from your property. The results of the sampling are in the attached Table 1.

GEI would like to conduct additional indoor air testing at your property at no expense to you. The testing will involve the placement of an air collection canister or canisters within your home for approximately 24 hours. If you agree to provide this access, GEI would visit your property twice—once to drop off the canister(s) and once to pick them up. Please contact me at igladstone@geiconsultants.com or 781.721.4012 to answer any of your questions and to coordinate this access. All results of our testing will be promptly shared with you.

Sincerely,

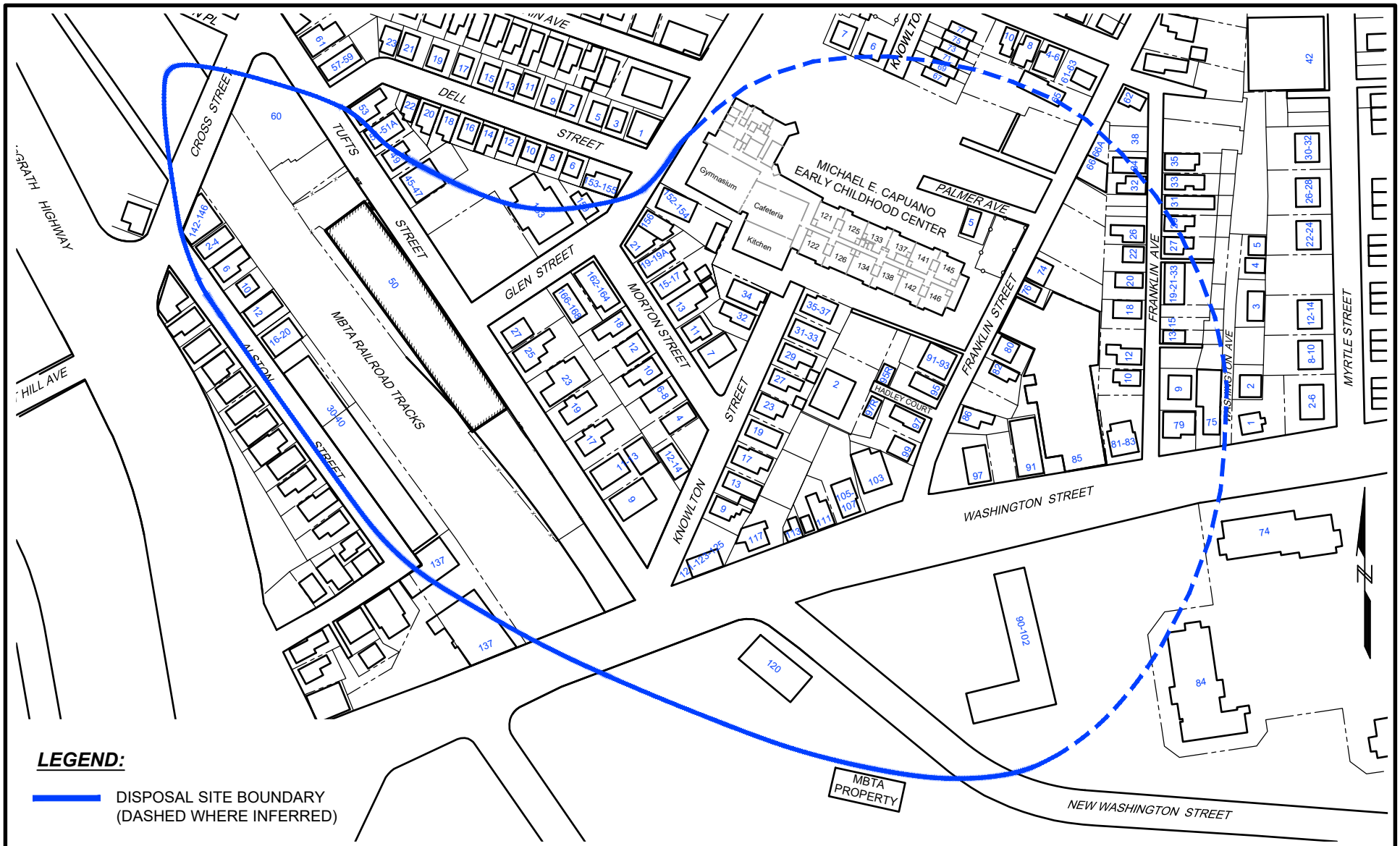
GEI CONSULTANTS, INC.

Ileen S. Gladstone, P.E, LSP
Senior Vice President

Christopher O. Coner, CHMM
Project Manager

ISG/COC:vjb
\\geiconsultants.com\data\Data_Storage\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Tufts Street\11-13 Tufts\2025 Access Request Letter\Unit 2\11-13 Tufts Street Env Conditions Letter, Unit 2.docx

Attachments
cc: Catherine Malagrida, UniFirst Corporation
MassDEP via Status Report



LEGEND:

DISPOSAL SITE BOUNDARY
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0 200 400

SCALE, FEET

50 Tufts Street
Somerville, Massachusetts

UniFirst Corporation
Wilmington, Massachusetts

GEI Consultants

SITE SKETCH

Project 04516-3

November 2025 Fig . 1

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50 Tufts Street
Somerville, Massachusetts

Sample Location:		Basement										First floor									
Sample Name:		IA-2		11/13TUFTS-B		11/13 TUFTS-B		11/13TUFTS-B		11/13 TUFTS-B		IA-1		11/13TUFTS-1		11/13 TUFTS-1		11/13TUFTS-1		11/13 TUFTS-1	
Sample Date:		2/23/05		3/24/06		6/29/06		9/28/06		12/15/06		2/23/05		3/24/06		6/29/06		9/28/06		12/15/06	
Sampled By:		Shaw		GEI		GEI		GEI		GEI		Shaw		GEI		GEI		GEI		GEI	
Units:		µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**																				
Volatile Organic Compounds (VOCs)	**TO-15**																				
1,1,1-Trichloroethane (TCA)		< 1.1	< 0.20	<1.1	<0.20	<1.1	<0.20	<1.1	<0.20	<1.1	<0.20	< 1.1	< 0.20	<1.1	<0.20	0.71 J	0.13 J	<1.1	<0.20	<1.1	<0.20
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Chloroform		< 0.98	< 0.20	<0.98	<0.20	<0.98	<0.20	NT	NT	NT	NT	2.8	0.57	<0.98	<0.20	1.5	0.3	NT	NT	NT	NT
Chloromethane		0.81	0.39	1.4 L	0.68 L	1.7	0.8	NT	NT	NT	NT	0.99	0.48	1.4 L	0.70 L	2.7	1.3	NT	NT	NT	NT
Methylene Chloride		< 0.81	< 0.20	4.5 J+	<1.3 J+	5.2 J+	1.5 J+	NT	NT	NT	NT	< 0.81	< 0.20	1.2 J+	0.34 J+	2.7 J+	0.77 J+	NT	NT	NT	NT
Tetrachloroethylene (PCE)		1.8	0.26	<1.4	<0.20	2.4	0.36	0.88 J	0.13 J	2.2	0.33	1.0 J	0.15 J	<1.4	<0.20	1.8	0.27	1.5	0.22	<1.4	<0.20

General Notes:

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J+ The reported result is estimated.

December 5, 2025
Project 045163

CERTIFIED MAIL: 9489 0178 9820 3037 2301 62

Mr. Benjamin Vachon
11-13 Tufts Street, Unit 3
Somerville, MA 02145

Re: Summary of Indoor Air Sampling and Environmental Conditions
11-13 Tufts Street
Somerville, Massachusetts

Dear Mr. Vachon:

We understand that you are the owners of the property located at 11-13 Tufts Street, Unit 3, in Somerville, Massachusetts. GEI Consultants, Inc. (GEI) has been working for years in the neighborhood to manage environmental risks associated with the historical release of chlorinated volatile organic compounds (VOCs) to soil and groundwater on the nearby 50 Tufts Street Property that was first reported in 2002. GEI's work is being conducted under the Massachusetts Contingency Plan (MCP) overseen by the Massachusetts Department of Environmental Protection (MassDEP). The purpose of this letter is to summarize the environmental conditions in the area, share information regarding prior environmental evaluation of your property, and to request your permission to collect additional data from your property. This request is not associated with a new release or any specific change in conditions, but instead it is intended to confirm that long-term risks associated with the 50 Tufts Street Site continue to be appropriately managed.

A release of chlorinated VOCs on the 50 Tufts Street Property was first reported to the MassDEP in 2002. GEI is an environmental consulting firm that has been working on response actions at 50 Tufts Street and in the neighborhood since 2004. Numerous studies have been conducted relating to the 50 Tufts Street Site, and response actions are currently being conducted under the MCP process overseen by MassDEP.

If you are interested in more information regarding GEI's work, reports documenting response actions conducted at the 50 Tufts Street Site are available for review at the MassDEP Northeast Regional Office in Woburn, Massachusetts. A map depicting the extent of the "Site" is attached and marked as "Figure 1." Records are accessible online at the MassDEP Searchable Sites database (https://eeaonline.eea.state.ma.us/portal/dep/wastesite/). Additionally, local public document repositories have been established at the Somerville Central Public Library and at the City of Somerville Clerk's Office. The MassDEP release tracking number (RTN) for the Site is RTN 323246.

Indoor air testing was previously conducted at your property in February 2005, March 2006, June 2006, September 2006, and December 2006. Chlorinated VOCs were detected above the laboratory detection

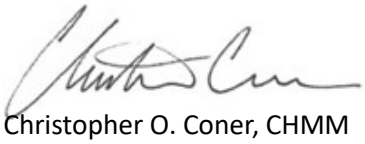
limit in one or more of the indoor air samples collected from your property. The results of the sampling are in the attached Table 1.

GEI would like to conduct additional indoor air testing at your property at no expense to you. The testing will involve the placement of an air collection canister or canisters within your home for approximately 24 hours. If you agree to provide this access, GEI would visit your property twice—once to drop off the canister(s) and once to pick them up. Please contact me at igladstone@geiconsultants.com or 781.721.4012 to answer any of your questions and to coordinate this access. All results of our testing will be promptly shared with you.

Sincerely,

GEI CONSULTANTS, INC.

Ileen S. Gladstone, P.E, LSP
Senior Vice President



Christopher O. Coner, CHMM
Project Manager

DJM:jam
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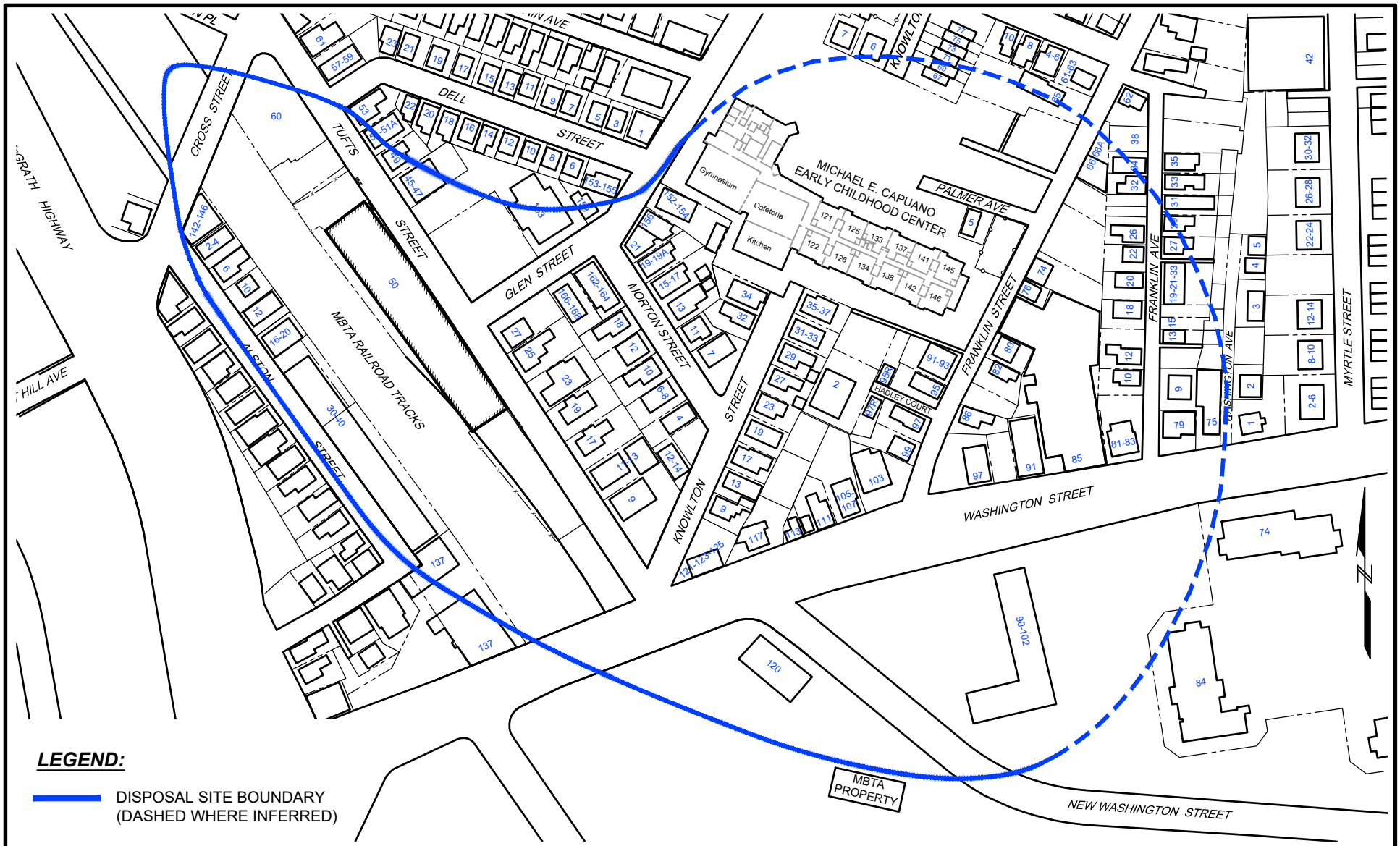
Attachments
cc: Catherine Malagrida, UniFirst Corporation
MassDEP via Status Report



LEGEND:

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0 200 400

SCALE, FEET

50 Tufts Street
Somerville, Massachusetts

UniFirst Corporation
Wilmington, Massachusetts

GEI Consultants

SITE SKETCH

Project 04516-3

November 2025 Fig . 1

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50 Tufts Street
Somerville, Massachusetts

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Units:		µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
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General Notes:

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December 5, 2025
Project 045163

CERTIFIED MAIL: 9489 0178 9820 3037 2301 24

Mr. Remy Provost
Mrs. Helene Provost
17 Tufts Street
Somerville, MA 02145

Re: Property Access for Indoor Air Sampling
17 Tufts Street
Somerville, Massachusetts

Dear Mr. and Mrs. Provost:

As you may recall, GEI Consultants (GEI) has been working for years in the neighborhood to manage environmental risks associated with the historical release of chlorinated volatile organic compounds (VOCs) to soil and groundwater on the nearby 50 Tufts Street Property that was first reported in 2002. GEI's work is being conducted under the Massachusetts Contingency Plan (MCP) overseen by the Massachusetts Department of Environmental Protection (MassDEP).

You may also recall that we conducted indoor air sampling at your property located at 17 Tufts Street to assess environmental conditions there. Indoor air testing was previously conducted at your property in March 2005, March 2006, October 2006, and December 2006. Chlorinated VOCs were detected above the laboratory detection limit in one or more of the indoor air samples collected from your property. The results of the historical sampling are provided in the attached Table 1.

In connection with our ongoing work with MassDEP, we are reaching out to homeowners in the area where recent indoor air sampling data is not available to request access to conduct additional indoor air monitoring to assess current conditions. This request is not associated with a new release or any specific change in conditions, but instead it is intended to confirm that long-term risks associated with the 50 Tufts Street Site continue to be appropriately managed.

If you are interested in more information regarding GEI's work, reports documenting response actions conducted at the 50 Tufts Street Site are available for review at the MassDEP Northeast Regional Office in Woburn, Massachusetts. A map depicting the extent of the "Site" is attached and marked as "Figure 1." Records also are accessible online at the MassDEP Searchable Sites database (https://eeaonline.eea.state.ma.us/portal/dep/wastesite/). Additionally, local public document repositories have been established at the Somerville Central Public Library and at the City of Somerville Clerk's Office. The MassDEP release tracking number (RTN) for the Site is RTN 3-23246.

GEI would like to conduct additional indoor air testing at your property at no expense to you. The testing will involve placement of an air collection canister or canisters within your home for approximately 24 hours. If you agree to provide this access, GEI would visit your property twice—once to drop off the canister(s) and once to pick them up. Please contact me at igladstone@geiconsultants.com or 781.721.4012 to answer any of your questions and to coordinate this access. All results of our testing will be promptly shared with you.

Sincerely,

GEI CONSULTANTS, INC

Ileen S. Gladstone, P.E, LSP
Senior Vice President

Christopher O. Coner, CHMM
Project Manager

ISG/COC:vjb
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Attachments
cc: Catherine Malagrida, UniFirst Corporation
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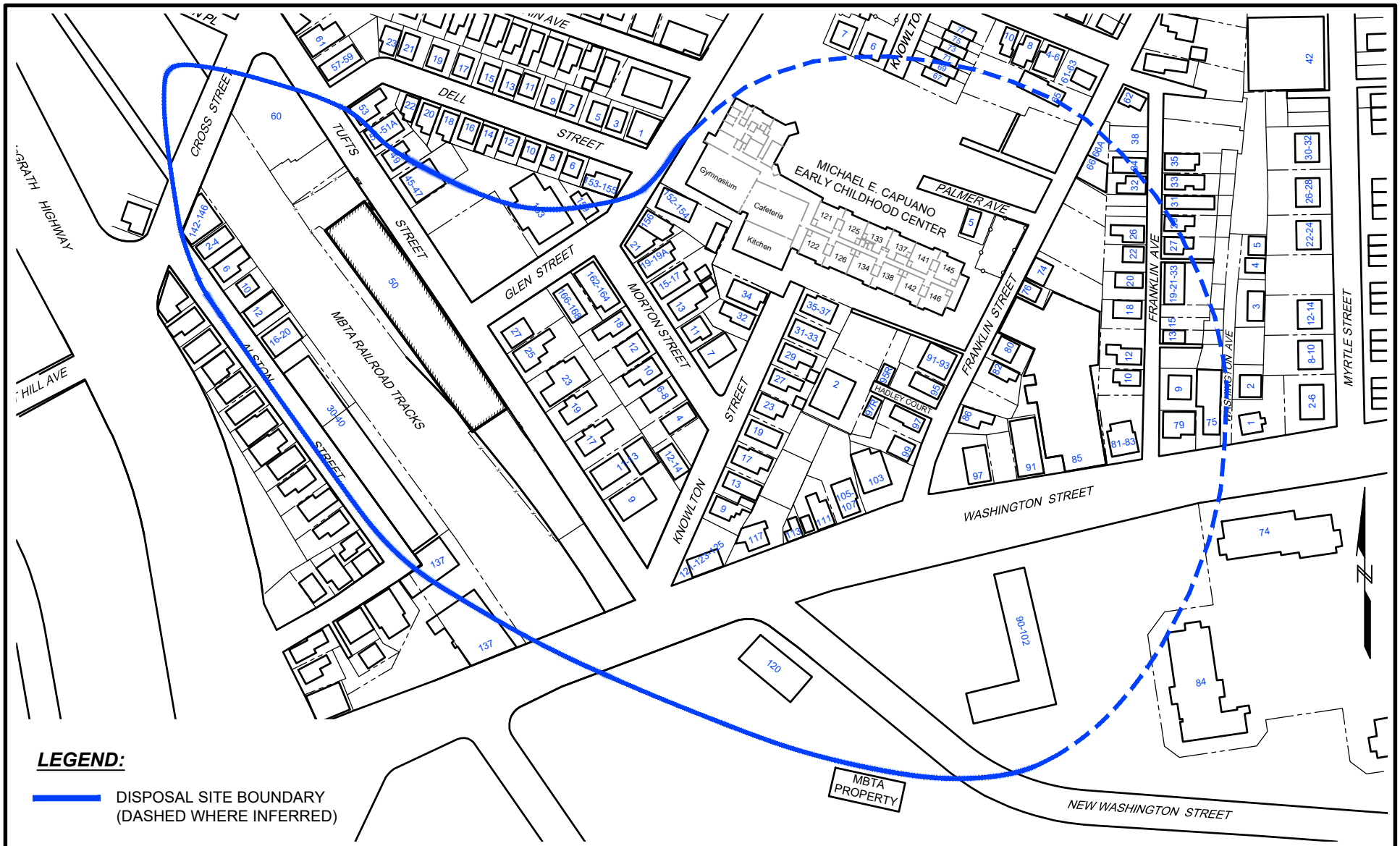

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SCALE, FEET

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Wilmington, Massachusetts

GEI Consultants

SITE SKETCH

Project 04516-3

November 2025 Fig . 1

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50 Tufts Street
Somerville, Massachusetts

Sample Location:		Basement												First Floor									
Sample Name:		IA-11		17TUFTS-B		17TUFTS-C		17TUFTS-B		17TUFTS-C		17 TUFTS-B		IA-12		17TUFTS-1		17TUFTS-1		17 TUFTS-1		17 TUFTS-C	
Sample Date:		3/24/05		3/24/06		3/24/06		10/2/06		10/2/06		12/18/06		3/24/05		3/24/06		10/2/06		12/18/06		12/18/06	
Sampled By:		Shaw		GEI		GEI		GEI		GEI		GEI		Shaw		GEI		GEI		GEI		GEI	
Units:		µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**																						
Volatile Organic Compounds (VOCs)	**TO-15**																						
Carbon Tetrachloride		NT	NT	<1.3	<0.20	<1.3	<0.20	<1.3	<0.20	<1.3	<0.20	0.52 J	0.083 J	NT	NT	<1.3	<0.20	<1.3	<0.20	0.57 J	0.090 J	<1.3	<0.20
Chloroform		1.1	0.23	<0.98	<0.20	<0.98	<0.20	NT	NT	NT	NT	NT	NT	1.9	0.39	<0.98	<0.20	NT	NT	NT	NT	NT	NT
Chloromethane		0.97	0.47	1.2 L	0.58 L	1.4 L	0.69 L	NT	NT	NT	NT	NT	NT	1.1	0.52	1.7 L	0.80 L	NT	NT	NT	NT	NT	NT
Methylene Chloride		1.5	0.43	59.1 L	17.0 L	57.3 L	16.5 L	NT	NT	NT	NT	NT	NT	1	0.3	4.2 J+	1.2 J+	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		8.8	1.3	1.3 J	0.19 J	1.4	0.21	6.1	0.9	6	0.89	2	0.30	4.7	0.69	2.9	0.43	0.88 J	0.13 J	1.5	0.22	<1.4	<0.20
Trichloroethene		0.91 J	0.17 J	<1.1	<0.20	0.70 J	0.13 J	7	1.3	7	1.3	0.70 J	0.13 J	< 1.1	< 0.20	<1.1	<0.20	<1.1	<0.20	<1.1	<0.20	<1.1	<0.20

General Notes:
1. Analytes detected in at least one sample are reported here.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT= Not tested
6. NS= No standard established
7. Shaw Environmental collected samples on behalf of the DEP, samples collected 3/24/05.

Qualifying Notes:
J The reported result is below the laboratory reporting limit and is estimated.
L The reported result is estimated because the calculated relative percent difference (RPD) between a sample and the matrix duplicate was above the quality control limit specified in the Quality Assurance Project Plan (QAPP).
J+ The reported result is estimated.

December 5, 2025
Project 045163

CERTIFIED MAIL: 9489 0178 9820 3037 2301 79

Mr. Joshua S. Himmelfarb
Mr. Jonathan E. Evans
Ms. Megan M. Goodell
19 Tufts Street
Somerville, MA 02145

Re: Summary of Indoor Air Sampling and Environmental Conditions
19 Tufts Street
Somerville, Massachusetts

Dear Mr. Himmelfarb, Mr. Evans, and Ms. Goodell:

We understand that you are the owners of the property located at 19 Tufts Street in Somerville, Massachusetts. GEI Consultants, Inc. (GEI) has been working for years in the neighborhood to manage environmental risks associated with the historical release of chlorinated volatile organic compounds (VOCs) to soil and groundwater on the nearby 50 Tufts Street Property that was first reported in 2002. GEI's work is being conducted under the Massachusetts Contingency Plan (MCP) overseen by the Massachusetts Department of Environmental Protection (MassDEP). The purpose of this letter is to summarize the environmental conditions in the area, share information regarding prior environmental evaluation of your property, and to request your permission to collect additional data from your property. This request is not associated with a new release or any specific change in conditions, but instead it is intended to confirm that long-term risks associated with the 50 Tufts Street Site continue to be appropriately managed.

A release of chlorinated VOCs on the 50 Tufts Street Property was first reported to the MassDEP in 2002. GEI is an environmental consulting firm that has been working on response actions at 50 Tufts Street and in the neighborhood since 2004. Numerous studies have been conducted relating to the 50 Tufts Street Site, and response actions are currently being conducted under the MCP process overseen by MassDEP.

If you are interested in more information regarding GEI's work, reports documenting response actions conducted at the 50 Tufts Street Site are available for review at the MassDEP Northeast Regional Office in Woburn, Massachusetts. A map depicting the extent of the "Site" is attached and marked as "Figure 1." Records are accessible online at the MassDEP Searchable Sites database (https://eeaonline.eea.state.ma.us/portal/dep/wastesite/). Additionally, local public document repositories have been established at the Somerville Central Public Library and at the City of Somerville Clerk's Office. The MassDEP release tracking number (RTN) for the Site is RTN 323246.

Indoor air testing was previously conducted at your property in March 2005, March 2006, June 2006, October 2006, and December 2006. Chlorinated VOCs were detected above the laboratory detection limit in one or more of the indoor air samples collected from your property. The results of the sampling are in the attached Table 1.

GEI would like to conduct additional indoor air testing at your property at no expense to you. The testing will involve the placement of an air collection canister or canisters within your home for approximately 24 hours. If you agree to provide this access, GEI would visit your property twice—once to drop off the canister(s) and once to pick them up. Please contact me at igladstone@geiconsultants.com or 781.721.4012 to answer any of your questions and to coordinate this access. All results of our testing will be promptly shared with you.

Sincerely,

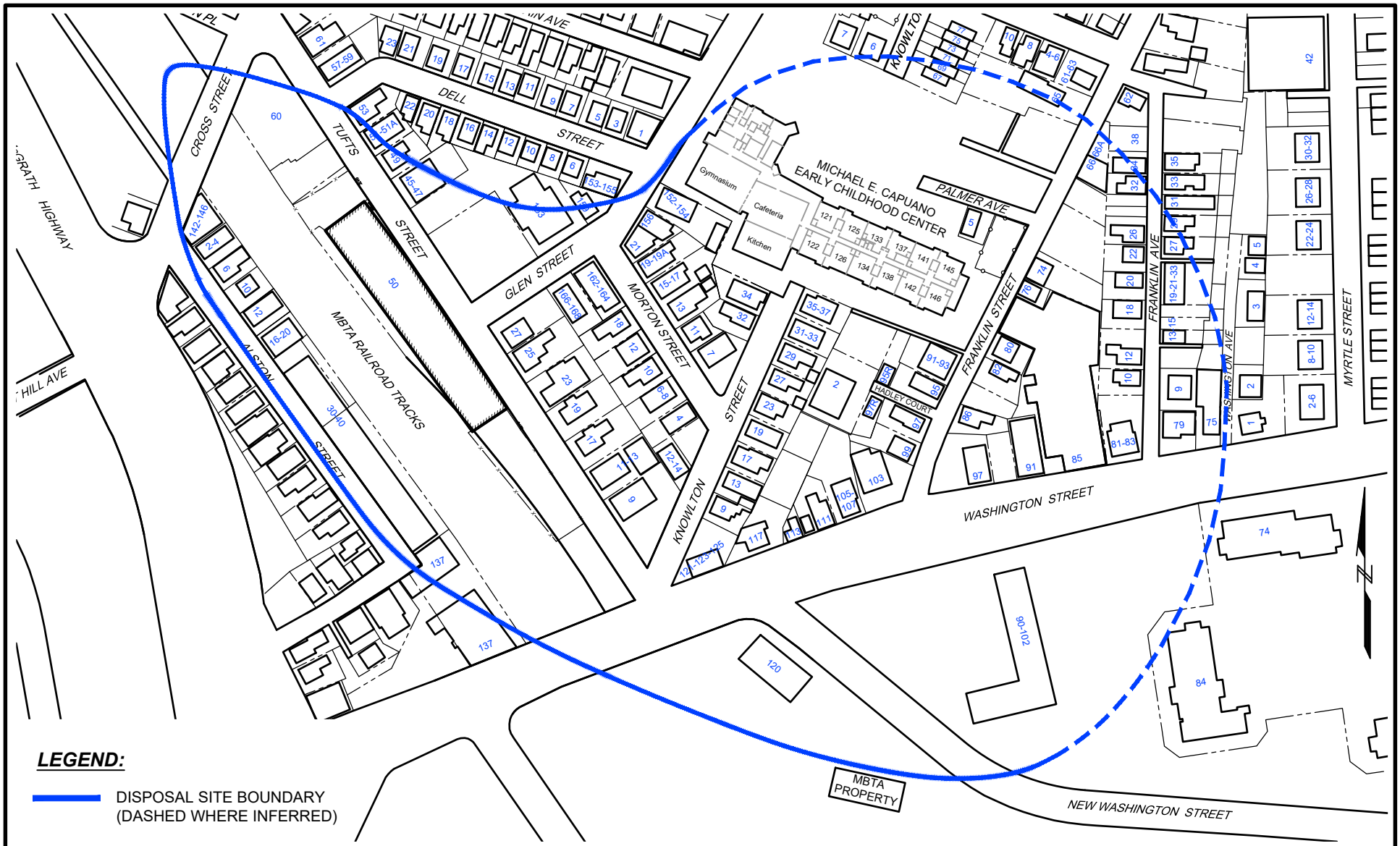
GEI CONSULTANTS, INC.

Ileen S. Gladstone, P.E, LSP
Senior Vice President

Christopher O. Coner, CHMM
Project Manager

ISG/COC:vjb
\\geiconsultants.com\data\Data_Storage\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Tufts Street\19 Tufts\2025 Access Request Letter\19 Tufts Street Env Conditions Letter.docx

Attachments
cc: Catherine Malagrida, UniFirst Corporation
MassDEP via Status Report



LEGEND:

DISPOSAL SITE BOUNDARY
(DASHED WHERE INFERRED)

0 200 400

SCALE, FEET

50 Tufts Street
Somerville, Massachusetts

UniFirst Corporation
Wilmington, Massachusetts

GEI Consultants

SITE SKETCH

Project 04516-3

November 2025 Fig . 1

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Table 1 - Chemical Testing Results - Indoor Air (19 Tufts Street)
50 Tufts Street
Somerville, Massachusetts

Sample Location:		Basement																First floor											
Sample Name:		IA-13		19Tufts-B		19Tufts-C (duplicate)		19Tufts-B		19Tufts-C (duplicate)		19Tufts-B		19Tufts-C (duplicate)		19Tufts-B		19Tufts-C (duplicate)		IA-14		19Tufts-1		19Tufts-1		19Tufts-1		19Tufts-1		19Tufts-1	
Sample Date:		3/24/05		3/23/06		3/23/06		6/29/06		6/29/06		10/10/06		10/10/06		12/15/06		12/15/06		3/24/05		3/23/06		6/29/06		6/29/06		10/10/06		12/15/06	
Sampled By:		Shaw		GEI		GEI		GEI		GEI		GEI		GEI		GEI		GEI		Shaw		GEI		GEI		GEI		GEI		GEI	
Units:		µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**																														
Volatile Organic Compounds (VOCs)	**TO-15**																														
1,1,1-Trichloroethane (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
1,2-Dichloroethane		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Carbon Tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	0.59 J	0.093 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	0.63 J	0.10 J	< 1.3	< 0.20	0.63 J	0.10 J
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Chloroform		< 0.98	< 0.20	< 0.98	< 0.20	< 0.98	< 0.20	0.83 J	0.17 J	0.88 J	0.18 J	NT	NT	NT	NT	NT	NT	NT	NT	0.78 J	0.16 J	< 0.98	< 0.20	5.4	1.1	NT	NT	NT	NT	NT	NT
Chloromethane		0.85	0.41	1.8 L	0.88 L	1.8 L	0.85 L	3.1	1.5	< 0.41	< 0.20	NT	NT	NT	NT	NT	NT	NT	NT	1.1	0.52	21.7 L	10.5 L	2.3	1.1	NT	NT	NT	NT	NT	NT
Methylene Chloride		0.35 J	0.1 J	< 3.2 M	< 0.92 M	< 4.2 M	< 1.2 M	< 14 M	< 4 M	< 13 M	< 3.6 M	NT	NT	NT	NT	NT	NT	NT	NT	0.34 J	0.099 J	< 4.2 M	< 1.2 M	< 14 M	< 4.1 M	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		3.2	0.47	7.5	1.1	6.6	0.98	4.1	0.60	3.8	0.56	15	2.2	6.8	1.0	2.5	0.37	1.4	0.2	0.95 J	0.14 J	1.2 J	0.18 J	2.4	0.35	0.6 J	0.089 J	< 1.4	< 0.20	0.60 J	0.089 J
Trichloroethene		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	2.1	0.39	1.6	0.30	6.4	1.2	6.4	1.2	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	1.7	0.31	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT= Not tested
6. NS= No standard established
7. Shaw Environmental collected samples on behalf of the DEP, samples collected 3/24/05.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
L The reported result is estimated because the calculated relative percent difference (RPD) between a sample and the matrix duplicate was above the quality control limit specified in the Quality Assurance Project Plan (QAPP).
J+ The reported result is estimated.
M The reporting limit is elevated due to a detection of the analyte in a method blank sample, trip blank sample, or both.

December 5, 2025
Project 045163

CERTIFIED MAIL: 9489 0178 9820 3037 2301 93

Yu Li
Ketai Wang
Pulin Wang
25 Tufts Street
Somerville, MA 02145

Re: Summary of Indoor Air Sampling and Environmental Conditions
25 Tufts Street
Somerville, Massachusetts

Dear Yu Li, Ketai Wang, and Pulin Wang:

We understand that you are the owners of the property located at 25 Tufts Street in Somerville, Massachusetts. GEI Consultants, Inc. (GEI) has been working for years in the neighborhood to manage environmental risks associated with the historical release of chlorinated volatile organic compounds (VOCs) to soil and groundwater on the nearby 50 Tufts Street Property that was first reported in 2002. GEI's work is being conducted under the Massachusetts Contingency Plan (MCP) overseen by the Massachusetts Department of Environmental Protection (MassDEP). The purpose of this letter is to summarize the environmental conditions in the area, share information regarding prior environmental evaluation of your property, and to request your permission to collect additional data from your property. This request is not associated with a new release or any specific change in conditions, but instead it is intended to confirm that long-term risks associated with the 50 Tufts Street Site continue to be appropriately managed.

A release of chlorinated VOCs on the 50 Tufts Street Property was first reported to the MassDEP in 2002. GEI is an environmental consulting firm that has been working on response actions at 50 Tufts Street and in the neighborhood since 2004. Numerous studies have been conducted relating to the 50 Tufts Street Site, and response actions are currently being conducted under the MCP process overseen by MassDEP.

If you are interested in more information regarding GEI's work, reports documenting response actions conducted at the 50 Tufts Street Site are available for review at the MassDEP Northeast Regional Office in Woburn, Massachusetts. A map depicting the extent of the "Site" is attached and marked as "Figure 1." Records are accessible online at the MassDEP Searchable Sites database (https://eeaonline.eea.state.ma.us/portal/dep/wastesite/). Additionally, local public document repositories have been established at the Somerville Central Public Library and at the City of Somerville Clerk's Office. The MassDEP release tracking number (RTN) for the Site is RTN 323246.

Indoor air testing was previously conducted at your property in February 2005, March 2006, August 2006, October 2006, and December 2006. Chlorinated VOCs were detected above the laboratory detection limit in one or more of the indoor air samples collected from your property. The results of the sampling are in the attached Table 1.

GEI would like to conduct additional indoor air testing at your property at no expense to you. The testing will involve the placement of an air collection canister or canisters within your home for approximately 24 hours. If you agree to provide this access, GEI would visit your property twice—once to drop off the canister(s) and once to pick them up. Please contact me at igladstone@geiconsultants.com or 781.721.4012 to answer any of your questions and to coordinate this access. All results of our testing will be promptly shared with you.

Sincerely,

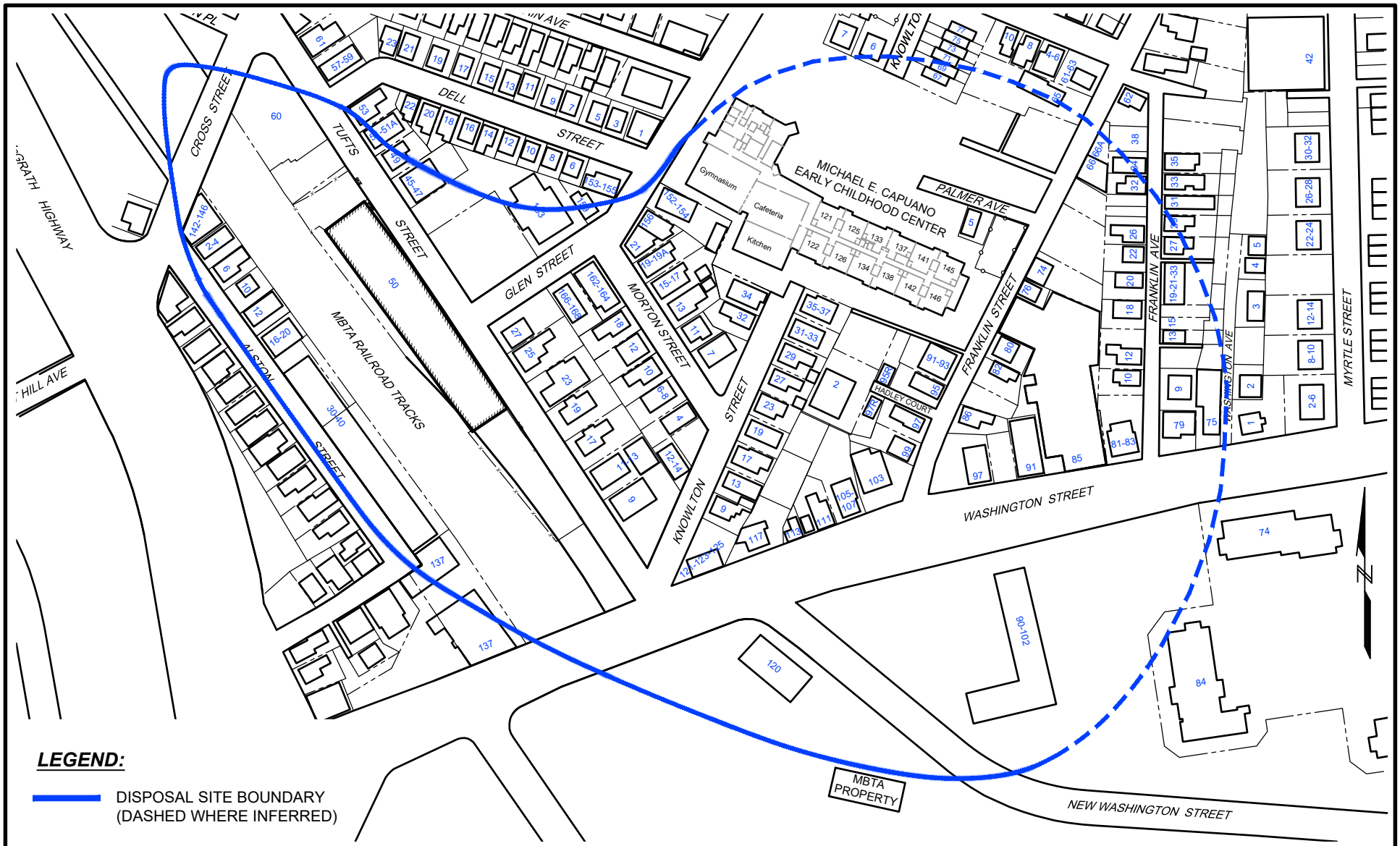
GEI CONSULTANTS, INC.

Ileen S. Gladstone, P.E, LSP
Senior Vice President

Christopher O. Coner, CHMM
Project Manager

ISG/COC:vjb
\\geiconsultants.com\data\Data_Storage\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Tufts Street\25 Tufts\2025 Access Request Letter\25 Tufts Street Access Request Letter.docx

Attachments
cc: Catherine Malagrida, UniFirst Corporation
MassDEP via Status Report



LEGEND:

DISPOSAL SITE BOUNDARY
(DASHED WHERE INFERRED)

0 200 400

SCALE, FEET

50 Tufts Street
Somerville, Massachusetts

UniFirst Corporation
Wilmington, Massachusetts

GEI Consultants

SITE SKETCH

Project 04516-3

November 2025 Fig . 1

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Table 1 - Chemical Testing Results - Indoor Air (25 Tufts Street)
50 Tufts Street
Somerville, Massachusetts

Sample Location:		Basement										First Floor									
Sample Name:		IA-4		25TUFTS-B		25TUFTS-B		25TUFTS-B		25 TUFTS-B		IA-3		25TUFTS-1		25TUFTS-1		25TUFTS-1		25 TUFTS-1	
Sample Date:		2/23/05		3/23/06		8/1/06		10/2/06		12/15/06		2/23/05		3/23/06		8/1/06		10/2/06		12/15/06	
Sampled By:		Shaw		GEI		GEI		GEI		GEI		Shaw		GEI		GEI		GEI		GEI	
Units:		µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**																				
Volatile Organic Compounds (VOCs)	**TO-15**																				
Carbon Tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.56 J	0.089 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.63 J	0.10 J
Chloroform		< 0.98	< 0.20	< 0.98	< 0.20	NT	NT	NT	NT	NT	NT	2	0.4	< 0.98	< 0.20	NT	NT	NT	NT	NT	NT
Chloromethane		0.74	0.36	1.1 L	0.52 L	NT	NT	NT	NT	NT	NT	0.95	0.46	1.1 L	0.54 L	NT	NT	NT	NT	NT	NT
Methylene Chloride		0.49 J	0.14 J	< 1.6 J+	< 0.47 J+	NT	NT	NT	NT	NT	NT	< 1.4 J+	< 0.20 J+	1.9 J+	< 0.54 J+	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		1.6	0.23	3.2	0.47	3.9	0.57	4.2	0.62	6.6	0.97	< 1.1	< 0.20	1.7	0.25	2	0.29	< 1.4	< 0.20	1.7	0.25

General Notes:

1. Analytes detected in at least one sample are reported here.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT= Not tested
6. NS= No standard established
7. Shaw Environmental collected samples on behalf of the DEP, samples collected 2/23/05.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
L The reported result is estimated because the calculated relative percent difference (RPD) between a sample and the matrix duplicate was above the quality control limit specified in the Quality Assurance Project Plan (QAPP).
J+ The reported result is estimated.

December 18, 2025
Project 045163

CERTIFIED MAIL: 9171 9690 0935 0192 1952 22

Mr. Steven D. Faber
185 Samoset Avenue
Hull, MA 02045

Re: Summary of Indoor Air Sampling and Environmental Conditions
99 Franklin Street
Somerville, Massachusetts

Dear Mr. Faber:

We understand that you are the owners of the property located at 99 Franklin Street in Somerville, Massachusetts. GEI Consultants, Inc. (GEI) has been working for years in the neighborhood to manage environmental risks associated with the historical release of chlorinated volatile organic compounds (VOCs) to soil and groundwater on the nearby 50 Tufts Street Property that was first reported in 2002. GEI's work is being conducted under the Massachusetts Contingency Plan (MCP) overseen by the Massachusetts Department of Environmental Protection (MassDEP). The purpose of this letter is to summarize the environmental conditions in the area, share information regarding prior environmental evaluation of your property, and to request your permission to collect additional data from your property. This request is not associated with a new release or any specific change in conditions, but instead it is intended to confirm that long-term risks associated with the 50 Tufts Street Site continue to be appropriately managed.

A release of chlorinated VOCs on the 50 Tufts Street Property was first reported to the MassDEP in 2002. GEI is an environmental consulting firm that has been working on response actions at 50 Tufts Street and in the neighborhood since 2004. Numerous studies have been conducted relating to the 50 Tufts Street Site, and response actions are currently being conducted under the MCP process overseen by MassDEP.

If you are interested in more information regarding GEI's work, reports documenting response actions conducted at the 50 Tufts Street Site are available for review at the MassDEP Northeast Regional Office in Woburn, Massachusetts. A map depicting the extent of the "Site" is attached and marked as "Figure 1." Records are accessible online at the MassDEP Searchable Sites database (https://eeaonline.eea.state.ma.us/portal/dep/wastesite/). Additionally, local public document repositories have been established at the Somerville Central Public Library and at the City of Somerville Clerk's Office. The MassDEP release tracking number (RTN) for the Site is RTN 3-23246.

Indoor air testing was previously conducted at your property in June 2007, February 2008, and September 2009. Chlorinated VOCs were detected above the laboratory detection limit in one or more of the indoor air samples collected from your property. The results of the sampling are in the attached Table 1.

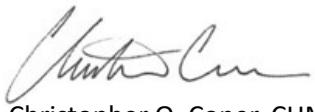
GEI would like to conduct additional indoor air testing at your property at no expense to you. The testing will involve the placement of an air collection canister or canisters within your home for approximately 24 hours. If you agree to provide this access, GEI would visit your property twice—once to drop off the canister(s) and once to pick them up.

Please contact me at igladstone@geiconsultants.com or 781.721.4012 to answer any of your questions and to coordinate this access. All results of our testing will be promptly shared with you.

Sincerely,

GEI CONSULTANTS, INC.

Ileen S. Gladstone, P.E, LSP
Senior Vice President



Christopher O. Coner, CHMM
Project Manager

ISG/COC:jam
\\geiconsultants.com\data\Data_Storage\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Franklin Street\99 Franklin\2025 Access Request Letter\99 Franklin Street Env Conditions Letter.docx

Attachments
cc: Catherine Malagrida, UniFirst Corporation
MassDEP via Status Report

Table 1 - Chemical Testing Results - Indoor Air (99 Franklin Street)
50 Tufts Street
Somerville, Massachusetts

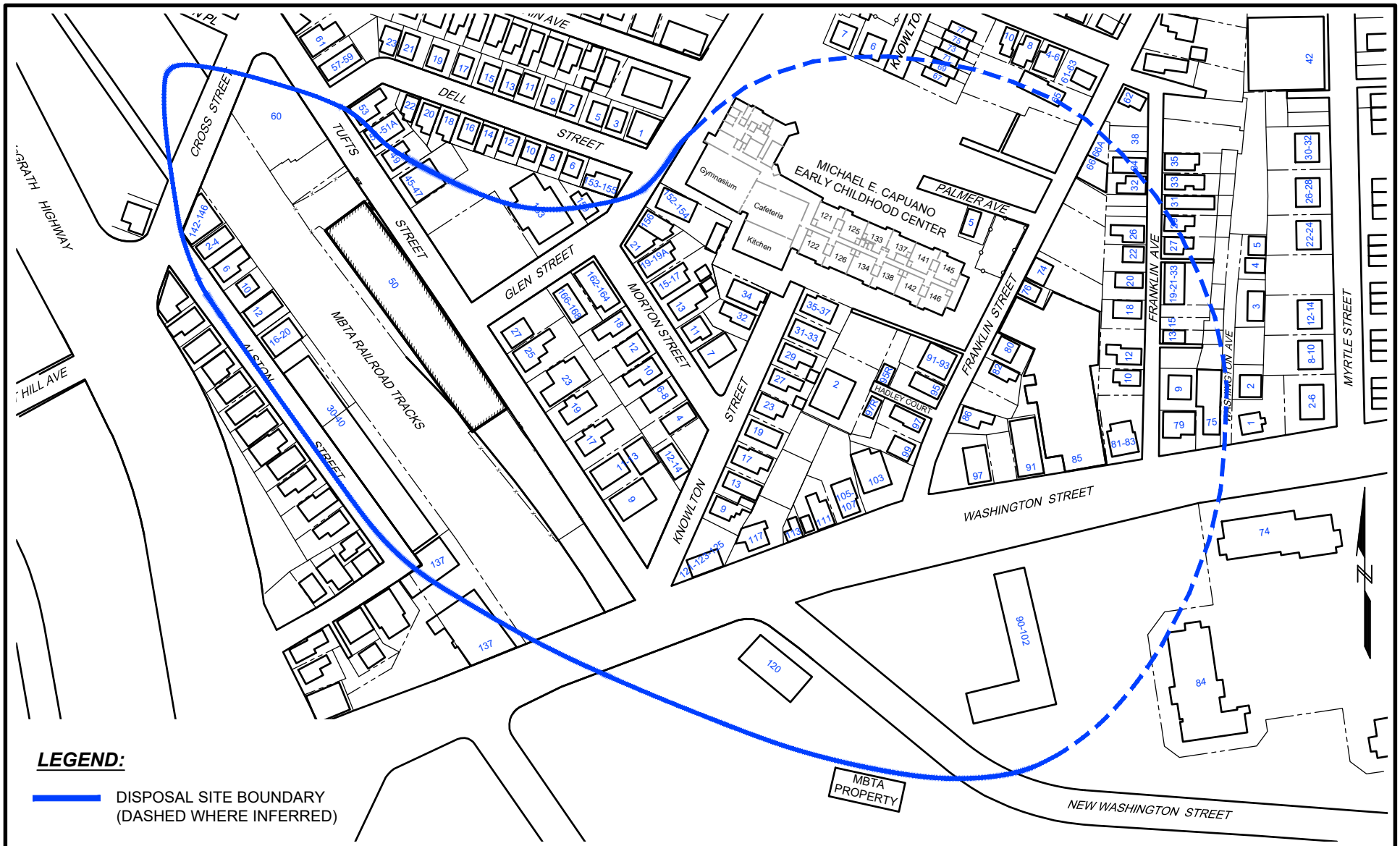
Sample Location:		Basement						First Floor	
Sample Name:		99FRANK-B		99FRANK-B		99-FRAN-B		99FRANK-1	
Sample Date:		6/25/07		2/5/08		9/18/09		2/5/08	
Sampled By:		GEI		GEI		GEI		GEI	
Units:		µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	**TO-15**								
Tetrachloroethylene (PCE)		1.4	0.21	8.1	1.2	< 1.4	< 0.20	1.2 J	0.17 J

General Notes:

1. Analytes detected in at least one sample are reported here.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.



LEGEND:

DISPOSAL SITE BOUNDARY
(DASHED WHERE INFERRED)

0 200 400

SCALE, FEET

50 Tufts Street
Somerville, Massachusetts

UniFirst Corporation
Wilmington, Massachusetts

GEI Consultants

SITE SKETCH

Project 04516-3

November 2025 Fig . 1

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December 5, 2025
Project 045163

CERTIFIED MAIL: 9489 9820 3037 2301 0178 31

Mr. Rui Maciel
Mrs. Joanna Maciel
162-164 Glen Street
Somerville, MA 02145

Re: Property Access for Indoor Air Sampling
162-164 Glen Street
Somerville, Massachusetts

Dear Mr. and Mrs. Maciel:

As you may recall, GEI Consultants (GEI) has been working for years in the neighborhood to manage environmental risks associated with the historical release of chlorinated volatile organic compounds (VOCs) to soil and groundwater on the nearby 50 Tufts Street Property that was first reported in 2002. GEI's work is being conducted under the Massachusetts Contingency Plan (MCP) overseen by the Massachusetts Department of Environmental Protection (MassDEP).

You may also recall that we conducted indoor air sampling at your property located at 162-164 Glen Street to assess environmental conditions there. Indoor air testing was previously conducted at your property in August 2007, January 2010, November 2010, and February 2011. Chlorinated VOCs were detected above the laboratory detection limit in one or more of the indoor air samples collected from your property. The results of the historical sampling are provided in the attached Table 1.

In connection with our ongoing work with MassDEP, we are reaching out to homeowners in the area where recent indoor air sampling data is not available to request access to conduct additional indoor air monitoring to assess current conditions. This request is not associated with a new release or any specific change in conditions, but instead it is intended to confirm that long-term risks associated with the 50 Tufts Street Site continue to be appropriately managed.

If you are interested in more information regarding GEI's work, reports documenting response actions conducted at the 50 Tufts Street Site are available for review at the MassDEP Northeast Regional Office in Woburn, Massachusetts. A map depicting the extent of the "Site" is attached and marked as "Figure 1." Records also are accessible online at the MassDEP Searchable Sites database (https://eeaonline.eea.state.ma.us/portal/dep/wastesite/). Additionally, local public document repositories have been established at the Somerville Central Public Library and at the City of Somerville Clerk's Office. The MassDEP release tracking number (RTN) for the Site is RTN 3-23246.

GEI would like to conduct additional indoor air testing at your property at no expense to you. The testing will involve placement of an air collection canister or canisters within your home for approximately 24 hours. If you agree to provide this access, GEI would visit your property twice—once to drop off the canister(s) and once to pick them up. Please contact me at igladstone@geiconsultants.com or 781.721.4012 to answer any of your questions and to coordinate this access. All results of our testing will be promptly shared with you.

Sincerely,

GEI CONSULTANTS, INC

Ileen S. Gladstone, P.E, LSP
Senior Vice President

Christopher O. Coner, CHMM
Project Manager

ISG/COC:vjb
\\geiconsultants.com\data\Data_Storage\Private\04516\2.0 Correspondence\2.4 Residences\Individual Residences\Glen Street\162-164 Glen\2025 Access Request Letter\162-164 Glen Street Access Request Letter.docx

Attachments
cc: Catherine Malagrida, UniFirst Corporation
MassDEP via Status Report

Appendix C Boring and Monitoring Well Installation Logs

BORING INFORMATION

LOCATION: 86 Franklin Street
GROUND SURFACE EL. (ft): NM
VERTICAL DATUM: NAVD 88
TOTAL DEPTH (ft): 45.0
LOGGED BY: C. McCallum-Green
DATE START/END: 9/26/2025 - 9/30/2025
DRILLING COMPANY: Northern Drill Service, Inc.
DRILLER NAME: C. Bierholm
RIG TYPE: Mobile B-57

BORING

B401 D

DRILLING INFORMATION

HAMMER TYPE: Automatic
AUGER I.D./O.D.: NA / NA
DRILLING METHOD: Drive and Wash
WATER LEVEL DEPTHS (ft): Not measured
CASING I.D./O.D.: 5 inch / NA
DRILL ROD O.D.: NM
CORE BARREL TYPE:
CORE BARREL I.D./O.D. NA / NA

ABBREVIATIONS:
Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation = Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer
S = Split Spoon Sample
C = Core Sample
U = Undisturbed Sample
SC = Sonic Core
DP = Direct Push Sample
HSA = Hollow-Stem Auger
Qp = Pocket Penetrometer Strength
Sv = Pocket Torvane Shear Strength
LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter
NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
							FILL	(0-0.25'): ASPHALT (0.25-1'): ASPHALT BEDDING ~60% fine to medium sand, ~30% coarse gravel <1", ~10% nonplastic fines, medium brown, dry. (1-6'):SILTY SAND ~60% fine to medium sand, ~30% nonplastic fines, ~10% coarse gravel <1", tannish brown, dry, compact.
	5					PID=0.0ppm		
		S1	6 to 8	24/16	5-16-7-14	PID=0.2ppm	SANDY CLAY	S1: SANDY CLAY ~70% medium plastic fines, ~20% fine to medium sand, ~10% coarse gravel <1", tan, dry, compact.
		S2	8 to 10	24/24	8-14-17-19	PID=0.0ppm		S2: SANDY CLAY ~65% medium plastic fines, ~25% fine to medium sand, ~10% coarse gravel <1", tan, dry, compact.
	10	S3	10 to 12	24/24	4-6-8-10	PID=0.0ppm		S3: SANDY CLAY ~65% medium plastic fines, ~25% fine to medium sand, ~10% coarse gravel <1", tannish gray, dry, compact.
		S4	12 to 14	24/24	9-7-4-5	PID=0.0ppm		S4: SANDY CLAY WITH GRAVEL ~60% medium plastic fines, ~25% fine to medium sand, ~15% coarse gravel <1", tannish gray, moist, compact.
		S5	14 to 16	24/24	2-1-3-3	PID=0.0 ppm		S5 (0-20"): SANDY CLAY WITH GRAVEL ~75% medium plastic fines, ~25% fine to medium sand, gray, moist, compact. S5 (20-24"): CLAYEY SAND ~50% medium plastic fines, ~50% fine to medium sand, gray, moist.
	15	S6	16 to 18	24/24	1-1-2-3	PID=0.0ppm		S6 (0-18"): SANDY CLAY ~65% medium plastic fines, ~25% fine to medium sand, ~10% coarse gravel <1", tannish gray, wet, compact. S6 (18-24"): SILTY SAND WITH GRAVEL ~60% fine to medium, ~20% nonplastic fines, ~20% coarse gravel <1", gray, wet, tight.
		S7	18 to 20	24/16	8-7-14-11	PID=0.3ppm		
							TILL	S7: GRAVEL WITH SILT AND SAND ~60% coarse gravel up to 1", ~25% fine to medium sand, ~15%

NOTES: Hole cleared to 6' using vacuum excavation prior to drilling.

PROJECT NAME: 50 Tufts Street
CITY/STATE: Somerville, Massachusetts
GEI PROJECT NUMBER: 045163

GEI Consultants

LOCATION: 86 Franklin Street
GROUND SURFACE EL. (ft): NM
VERTICAL DATUM: NAVD 88
DATE START/END: 9/26/2025 - 9/30/2025
DRILLING COMPANY: Northern Drill Service, Inc.

BORING
B401 D

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
								nonplastic fines, tannish gray, wet.
	25	S8	23 to 25	24/13	5-17-29-26	PID=0.2ppm		S8: SILTY SAND WITH GRAVEL ~60% fine to medium sand, ~20% nonplastic fines, ~20% coarse gravel up to 1", gray and tan, moist, tight.
	30	S9	29 to 29.5	6/6	8-100	PID=0.9ppm	TILL	S9: SILTY SAND WITH GRAVEL ~40% fine to medium sand, ~40% gravel up to 1", ~20% nonplastic fines, tan, wet, compact. Weathered rock in spoon tip.
	35	S10	34 to 36	24/12	25-33-61-89	PID=2.7ppm		S10: WEATHERED ROCK AND SILTY SAND ~60% weathered rock, ~40% rock dust/fine sand, nonplastic fines, gray, moist, tight.
	40	S11	39 to 40	12/11	59-100	PID=3.0ppm		S11: WEATHERED ROCK AND SILTY SAND ~70% weathered rock, ~30% rock dust/fine sand/ nonplastic fines, gray, moist, tight.
	45	S12	44 to 44.5	6/6	100	PID=0.8ppm		S12: WEATHERED ROCK AND SILTY SAND ~70% weathered rock, ~30% rock dust/fine sand/ nonplastic fines, gray, moist, tight.
								Bottom of borehole at 45 feet. Completed as Monitoring Well (MW401D).

NOTES: Hole cleared to 6' using vacuum excavation prior to drilling.

PROJECT NAME: 50 Tufts Street
CITY/STATE: Somerville, Massachusetts
GEI PROJECT NUMBER: 045163

GEI Consultants

GEI WOBURN STD 1-LOCATION-LAYER NAME MW400S.GPJ 1/29/26

BORING INFORMATION

LOCATION: 86 Franklin Street
GROUND SURFACE EL. (ft): NM
VERTICAL DATUM: NAVD 88
TOTAL DEPTH (ft): 20.0
LOGGED BY: C. McCallum-Green
DATE START/END: 9/26/2025 - 10/3/2025
DRILLING COMPANY: Northern Drill Service, Inc.
DRILLER NAME: C. Bierholm
RIG TYPE: Mobile B-57

BORING

B401 S

DRILLING INFORMATION

HAMMER TYPE: Automatic
AUGER I.D./O.D.: NA / NA
DRILLING METHOD: Drive and Wash
WATER LEVEL DEPTHS (ft): Not measured
CASING I.D./O.D.: 5 inch / NA
DRILL ROD O.D.: NM
CORE BARREL TYPE:
CORE BARREL I.D./O.D. NA / NA

ABBREVIATIONS:
Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation
= Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer
S = Split Spoon Sample
C = Core Sample
U = Undisturbed Sample
SC = Sonic Core
DP = Direct Push Sample
HSA = Hollow-Stem Auger
Qp = Pocket Penetrometer Strength
Sv = Pocket Torvane Shear Strength
LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter
NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
								See log MW401D for lithology.
	5							
	10							
	15							
	20							Bottom of borehole at 20 feet. Completed as Monitoring Well (MW401S).

NOTES: Hole cleared to 6' using vacuum excavation prior to drilling.

PROJECT NAME: 50 Tufts Street
CITY/STATE: Somerville, Massachusetts
GEI PROJECT NUMBER: 045163

GEI Consultants

GEI WOBURN STD 1-LOCATION-LAYER NAME MW400S.GPJ 1/29/26

BORING INFORMATION

LOCATION: Morton and Knowlton Street
GROUND SURFACE EL. (ft): NM
VERTICAL DATUM: NAVD 88
TOTAL DEPTH (ft): 30.0
LOGGED BY: C. McCallum-Green
DATE START/END: 10/2/2025 - 10/6/2025
DRILLING COMPANY: Northern Drill Service, Inc.
DRILLER NAME: C. Bierholm
RIG TYPE: Mobile B-57

BORING

B402

DRILLING INFORMATION

HAMMER TYPE: Automatic
AUGER I.D./O.D.: NA / NA
DRILLING METHOD: Drive and Wash
WATER LEVEL DEPTHS (ft): Not measured
CASING I.D./O.D.: 5 inch / NA
DRILL ROD O.D.: NM
CORE BARREL TYPE: Double tube core barrel with NX diamond
CORE BARREL I.D./O.D. NA / NA

ABBREVIATIONS:
Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation = Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer
S = Split Spoon Sample
C = Core Sample
U = Undisturbed Sample
SC = Sonic Core
DP = Direct Push Sample
HSA = Hollow-Stem Auger
Qp = Pocket Penetrometer Strength
Sv = Pocket Torvane Shear Strength
LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter
NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
							FILL	(0-0.25'): ASPHALT (0.25-6'): NARROWLY GRADED SAND WITH GRAVEL ~70% fine to medium sand, ~20% coarse gravel up to 2", ~10% nonplastic fines, brown, dry, contains brick and cobbles.
	5					PID=0.0ppm		
		S1	6 to 8	24/12	14-50-40-68	PID=0.0ppm	TILL	S1: CLAYEY SAND WITH GRAVEL ~45% fine to medium sand, ~25% medium plastic fines, ~30% coarse gravel <1", brownish gray, moist.
		S2	8 to 8.5	6/6	100	PID=0.0ppm		S2: GRAVEL ~90% coarse gravel and weathered rock, ~5% fine to medium sand, ~5% nonplastic fines, gray, wet.
	10	S3	10 to 12	24/6	5-20-60-21	PID=0.0ppm		S3: GRAVEL ~90% coarse gravel and weathered rock, ~5% fine to medium sand, ~5% nonplastic fines, gray, wet.
		S4	12 to 12.1	1/0	100			S4: No Recovery.
	15							
		S5	19 to	2/0	100			S5: No Recovery.

NOTES: Hole cleared to 6' using vacuum excavation prior to drilling.

PROJECT NAME: 50 Tufts Street
CITY/STATE: Somerville, Massachusetts
GEI PROJECT NUMBER: 045163

GEI Consultants

GEI WOBURN STD 1-LOCATION-LAYER NAME MW400S.GPJ 1/29/26

LOCATION: Morton and Knowlton Street
GROUND SURFACE EL. (ft): NM
VERTICAL DATUM: NAVD 88
DATE START/END: 10/2/2025 - 10/6/2025
DRILLING COMPANY: Northern Drill Service, Inc.

BORING B402

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
		C1	19.2 20 to 25	60/60	91		BEDROCK	C1: CAMBRIDGE ARGILLITE Fine-grained, hard, thin bedding, gray, slightly weathered.
	25	C2	25 to 30	60/60	97			C2: CAMBRIDGE ARGILLITE Fine-grained, hard, thin bedding, gray, slightly weathered, high angle fractures, calicte healed fractures.
	30							Bottom of borehole at 30 feet. Completed as Monitoring Well (MW402).
	35							
	40							
	45							

NOTES: Hole cleared to 6' using vacuum excavation prior to drilling.

PROJECT NAME: 50 Tufts Street
CITY/STATE: Somerville, Massachusetts
GEI PROJECT NUMBER: 045163

GEI Consultants

GEI WOBURN STD 1-LOCATION-LAYER NAME MW400S.GPJ 1/29/26

BORING INFORMATION

LOCATION: South 50 Tufts Street
GROUND SURFACE EL. (ft): NM
VERTICAL DATUM: NAVD 88
TOTAL DEPTH (ft): 90.0
LOGGED BY: C. McCallum-Green
DATE START/END: 9/25/2025 - 10/14/2025
DRILLING COMPANY: Northern Drill Service, Inc.
DRILLER NAME: C. Bierholm
RIG TYPE: Mobile B-57

BORING

B403

DRILLING INFORMATION

HAMMER TYPE: Automatic
AUGER I.D./O.D.: NA / NA
DRILLING METHOD: Drive and Wash
WATER LEVEL DEPTHS (ft): Not measured
CASING I.D./O.D.: 5 inch / NA
DRILL ROD O.D.: NM
CORE BARREL TYPE: Double tube core barrel with NX diamond
CORE BARREL I.D./O.D. NA / NA

ABBREVIATIONS:
Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation = Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer
S = Split Spoon Sample
C = Core Sample
U = Undisturbed Sample
SC = Sonic Core
DP = Direct Push Sample
HSA = Hollow-Stem Auger
Qp = Pocket Penetrometer Strength
Sv = Pocket Torvane Shear Strength
LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter
NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Depth (ft)	Pen./ Rec. (in)	Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
						PID=0.0ppm		(0-6'): NARROWLY GRADED SAND WITH SILT AND GRAVEL ~70% fine to medium sand, ~20% coarse gravel up to 3", ~10% nonplastic fines, brown, dry.
	5							
		S1	6 to 8	24/4	2-8-8-6	PID=0.0ppm	FILL	S1: GRAVEL WITH SILT AND SAND ~50% coarse gravel <1", ~35% fine to medium sand, ~15% nonplastic fines, gray, dry, contains brick.
		S2	8 to 10	24/14	4-3-3-2	PID=0.0ppm		S2: SILTY SAND WITH GRAVEL ~65% fine to medium sand, ~20% nonplastic fines, ~15% coarse gravel <1", light brown, dry 0-12" then moist.
	10	S3	10 to 12	24/6	5-3-2-4	PID=0.0ppm		S3: GRAVEL ~90% coarse gravel up to 1", ~5% fine to medium sand, ~5% nonplastic fines, wet, contains brick pieces.
		S4	12 to 14	24/14	1-1-1-1	PID=0.1ppm		S4: SILTY SAND WITH GRAVEL ~60% fine to medium sand, ~20% nonplastic fines, ~20% coarse gravel <1", light brown, wet.
		S5	14 to 16	24/5	6-6-3-2	PID=0.2ppm		S5: GRAVEL ~90% coarse gravel up to 1", ~5% fine to medium sand, ~5% nonplastic fines, wet, contains wood chips.
	15	S6	16 to 18	24/13	8-13-20-32	PID=6.6ppm		S6 (0-12"): SILTY SAND WITH GRAVEL ~45% fine to coarse sand, ~35% coarse gravel <1", ~20% nonplastic fines, gray ,wet, contains wood chips. S6 (12-24"): GRAVEL ~80% coarse gravel, ~10% fine to coarse sand, ~20% nonplastic fines, gray, wet.
		S7	19 to	6/6	100	PID=1.3ppm	TILL	S7: WEATHERED ROCK

NOTES: Hole cleared to 6' using vacuum excavation prior to drilling. 3" sample barrel used for 12-14' sample.

PROJECT NAME: 50 Tufts Street
CITY/STATE: Somerville, Massachusetts
GEI PROJECT NUMBER: 045163

GEI Consultants

GEI WOBURN STD 1-LOCATION-LAYER NAME MW400S.GPJ 1/29/26

LOCATION: South 50 Tufts Street
GROUND SURFACE EL. (ft): NM
VERTICAL DATUM: NAVD 88
DATE START/END: 9/25/2025 - 10/14/2025
DRILLING COMPANY: Northern Drill Service, Inc.

BORING B403

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
			19.5					
		S8	24 to 24.1	1/0	100			S8: No Recovery.
	25	C1	25 to 30	60/60	99		BEDROCK	C1: CAMBRIDGE ARGILLITE Fine-grained, hard, dark gray, thin bedding, slightly weathered, contains quartz and calcite intrusions, calcite healed fractures, high angle fracture at 54".
	30	C2	30 to 35	60/60	91			C2: CAMBRIDGE ARGILLITE Fine-grained, hard, dark gray, thin bedding, slightly weathered, contains quartz and calcite intrusions, calcite healed fractures, high angle fractures.
	35	C3	35 to 40	60/60	82			C3: CAMBRIDGE ARGILLITE Fine-grained, hard, dark gray, thin bedding, slightly weathered, contains quartz and calcite intrusions, calcite healed fractures, high angle fractures, heavily fractured 0-8".
	40	C4	40 to 45	60/60	85			C4: CAMBRIDGE ARGILLITE Fine-grained, hard, dark gray, thin bedding, slightly weathered, contains quartz, calcite, and hematite intrusions, calcite healed fractures.
	45	C5	45 to 50	60/60	92			C5: CAMBRIDGE ARGILLITE Fine-grained, hard, dark gray, thin bedding, slightly weathered, contains quartz, calcite, and hematite intrusions, calcite healed

NOTES: Hole cleared to 6' using vacuum excavation prior to drilling. 3" sample barrel used for 12-14' sample.

PROJECT NAME: 50 Tufts Street
CITY/STATE: Somerville, Massachusetts
GEI PROJECT NUMBER: 045163

GEI Consultants

GEI WOBURN STD 1-LOCATION-LAYER NAME MW400S.GPJ 1/29/26

LOCATION: South 50 Tufts Street
GROUND SURFACE EL. (ft): NM
VERTICAL DATUM: NAVD 88
DATE START/END: 9/25/2025 - 10/14/2025
DRILLING COMPANY: Northern Drill Service, Inc.

BORING
B403

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
								fractures, high angle fractures, heavily fractured 39-45".
	50	C6	50 to 55	60/60	73		BEDROCK	C6: CAMBRIDGE ARGILLITE Fine-grained, hard, dark gray, thin bedding, slightly weathered, contains quartz, calcite, and hematite intrusions, calcite healed fractures, high angle fractures, heavily fractured 45-60".
	55	C7	55 to 60	60/60	28			C7: CAMBRIDGE ARGILLITE Fine-grained, hard, dark gray, thin bedding, slightly weathered, contains quartz, calcite, and hematite intrusions, calcite healed fractures, high angle fractures, heavily fractured 0-15" and 24-60".
	60	C8	60 to 65	60/60	77			C8: CAMBRIDGE ARGILLITE Fine-grained, hard, dark gray, thin bedding, slightly weathered, contains quartz and calcite intrusions, calcite healed fractures, high angle fractures, heavily fractured 54-60".
	65	C9	65 to 70	60/60	86			C9: CAMBRIDGE ARGILLITE Fine-grained, hard, dark gray, thin bedding, slightly weathered, contains quartz and calcite intrusions, calcite healed fractures, high angle fractures.
	70	C10	70 to 75	60/60	50			C10: CAMBRIDGE ARGILLITE Fine-grained, hard, dark gray, thin bedding, slightly weathered, contains quartz and calcite intrusions, calcite healed fractures, high angle fractures, heavily fractured 36-60".

NOTES: Hole cleared to 6' using vacuum excavation prior to drilling. 3" sample barrel used for 12-14' sample.

PROJECT NAME: 50 Tufts Street
CITY/STATE: Somerville, Massachusetts
GEI PROJECT NUMBER: 045163

GEI Consultants

GEI WOBURN STD 1-LOCATION-LAYER NAME MW400S.GPJ 1/29/26

LOCATION: South 50 Tufts Street
GROUND SURFACE EL. (ft): NM
VERTICAL DATUM: NAVD 88
DATE START/END: 9/25/2025 - 10/14/2025
DRILLING COMPANY: Northern Drill Service, Inc.

BORING B403

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
	75	C11	75 to 80	60/60	100		BEDROCK	C11: CAMBRIDGE ARGILLITE Fine-grained, hard, dark gray, thin bedding, slightly weathered, contains quartz and calcite intrusions, calcite healed fractures.
	80	C12	80 to 85	60/60	100			C12: CAMBRIDGE ARGILLITE Fine-grained, hard, dark gray, thin bedding, slightly weathered, contains quartz and calcite intrusions, calcite healed fractures, high angle fractures.
	85	C13	85 to 90	60/60	100			C13: CAMBRIDGE ARGILLITE Fine-grained, hard, dark gray, thin bedding, slightly weathered, contains quartz and calcite intrusions, calcite healed fractures, high angle fractures, heavily fractured 48-60".
	90							Bottom of borehole at 90 feet. Completed as Monitoring Well (MW403).
	95							

NOTES: Hole cleared to 6' using vacuum excavation prior to drilling. 3" sample barrel used for 12-14' sample.

PROJECT NAME: 50 Tufts Street
CITY/STATE: Somerville, Massachusetts
GEI PROJECT NUMBER: 045163

GEI Consultants

BORING INFORMATION

LOCATION: 50 Tufts Street
GROUND SURFACE EL. (ft): NM
VERTICAL DATUM: NAVD 88
TOTAL DEPTH (ft): 90.0
LOGGED BY: C. McCallum-Green
DATE START/END: 9/26/2025 - 10/22/2025
DRILLING COMPANY: Northern Drill Service, Inc.
DRILLER NAME: C. Bierholm
RIG TYPE: Mobile B-57

BORING

B404

DRILLING INFORMATION

HAMMER TYPE: Automatic
AUGER I.D./O.D.: NA / NA
DRILLING METHOD: Drive and Wash
WATER LEVEL DEPTHS (ft): Not measured
CASING I.D./O.D.: 5 inch / NA
DRILL ROD O.D.: NM
CORE BARREL TYPE: Double tube core barrel with NX diamond
CORE BARREL I.D./O.D. NA / NA

ABBREVIATIONS:
Pen. = Penetration Length
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WOR = Weight of Rods
WOH = Weight of Hammer
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DP = Direct Push Sample
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PI = Plasticity Index
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I.D./O.D. = Inside Diameter/Outside Diameter
NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Depth (ft)	Pen./ Rec. (in)	Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
							FILL	(0-0.33'): ASPHALT (0.33-1.5'): NARROWLY GRADED SAND WITH GRAVEL ~75% fine to medium sand, ~15% gravel up to 3", ~10% nonplastic fines, dry, brown. (1.5-6'): Pieces of slate and concrete
	5							
		S1	6 to 8	24/17	16-38-77-56	PID=6.0ppm	TILL	S1: NARROWLY GRADED SAND WITH GRAVEL ~50% fine to medium sand, ~40% gravel up to 1", ~10% nonplastic fines, dry 0-12" then moist, gray.
		S2	8 to 9.3	16/14	39-93-100	PID=4.7ppm		S2: NARROWLY GRADED SAND WITH SILT AND GRAVEL ~45% fine to medium sand, ~40% coarse gravel and weathered rock <1", ~15% nonplastic fines, moist, grayish brown.
	10	S3	10 to 10.3	3/3	100	PID=0.8ppm		S3: GRAVEL WITH SILT AND SAND ~60% coarse gravel and weathered rock <1", ~25% fine to medium sand, ~15% nonplastic fines, wet, brown.
		S4	12 to 12	0/0	100			S4: No Recovery
	15	C1	14 to 19	60/60	0		BEDROCK	C1: SANDSTONE Fine-grained, hard, gray, very weathered, contains iron and calcite on fractures, calcite healed fractures, heavily fractured 0-60".
		C2	19 to	60/60	73			C2: GRAY ARGILLITE Fine-grained, hard, gray, very weathered, thin bedding, contains

NOTES: Hole cleared to 6' using vacuum excavation prior to drilling.

PROJECT NAME: 50 Tufts Street
CITY/STATE: Somerville, Massachusetts
GEI PROJECT NUMBER: 045163

GEI Consultants

GEI WOBURN STD 1-LOCATION-LAYER NAME MW400S.GPJ 1/29/26

LOCATION: 50 Tufts Street
GROUND SURFACE EL. (ft): NM
VERTICAL DATUM: NAVD 88
DATE START/END: 9/26/2025 - 10/22/2025
DRILLING COMPANY: Northern Drill Service, Inc.

BORING
B404

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
			24					iron and calcite on fractures, calctie healed fractures, high-angle fractures, heavily fractured 0-11".
	25	C3	24 to 29	60/60	65			C3: GRAY ARGILLITE Fine-grained, hard, gray, very weathered, thin bedding, contains iron on fractures, calctie healed fractures, high-angle fractures, heavily fractured 0-18".
	30	C4	29 to 34	60/60	85			C4: GRAY ARGILLITE Fine-grained, hard, gray, very weathered, thin bedding, contains iron on fractures, calctie healed fractures, contains quartz and hematite intrusions, high-angle fractures.
	35	C5	34 to 39	60/60	75			C5: GRAY ARGILLITE Fine-grained, hard, gray, very weathered, thin bedding, contains iron on fractures, calctie healed fractures, contains quartz and hematite intrusions, high-angle fractures, vertical fracture 6-20".
	40	C6	39 to 44	60/60	85			C6: GRAY ARGILLITE Fine-grained, hard, gray, weathered, thin bedding, contains iron on fractures, contains quartz intrusions, calctie healed fractures, high-angle fractures, vertical fracture 31-35".
	45	C7	44 to 49	60/60	93			C7 (0-12"): GRAY ARGILLITE Fine-grained, hard, gray, weathered, thin bedding, contains quartz intrusions, calcite healed fractures. C7 (12-60"): SANDSTONE Fine-grained, hard, light gray, slightly weathered, very thin

BEDROCK

NOTES: Hole cleared to 6' using vacuum excavation prior to drilling.

PROJECT NAME: 50 Tufts Street
CITY/STATE: Somerville, Massachusetts
GEI PROJECT NUMBER: 045163

GEI Consultants

GEI WOBURN STD 1-LOCATION-LAYER NAME MW400S.GPJ 1/29/26

LOCATION: 50 Tufts Street
GROUND SURFACE EL. (ft): NM
VERTICAL DATUM: NAVD 88
DATE START/END: 9/26/2025 - 10/22/2025
DRILLING COMPANY: Northern Drill Service, Inc.

BORING B404

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
								bedding, contains hematite and pyri
	50	C8	49 to 54	60/60	77			C8: SANDSTONE Fine-grained, hard, light gray, slightly weathered, very thin bedding, contains quartz, hematite, and pyrite, calcite healed fractures, high angle fractures, heavily fractured, vertical fracture 48-60".
	55	C9	54 to 59	60/60	62			C9: SANDSTONE Fine-grained, hard, light gray, very weathered, very thin bedding, contains quartz, hematite and pyrite, calcite healed fractures, high angle fractures, heavily fractured 24-60".
	60	C10	59 to 64	60/60	88		BEDROCK	C10: SANDSTONE Fine-grained, hard, light gray, slightly weathered, very thin bedding, contains quartz and hematite, calcite healed fractures, heavilly fractured, vertical fracture 47-60"'. Argillite intrusion 2-7".
	65	C11	64 to 69	60/60	83			C11: SANDSTONE Fine-grained, hard, light gray, slightly weathered, very thin bedding, contains quartz, hematite and pyrite, calcite healed fractures, vertical fracture 0-14".
	70	C12	69 to 74	60/60	90			C12: SANDSTONE Fine-grained, hard, light gray, slightly weathered, very thin bedding, contains quartz, hematite and pyrite, calcite healed fractures, iron on fractures.

NOTES: Hole cleared to 6' using vacuum excavation prior to drilling.

PROJECT NAME: 50 Tufts Street
CITY/STATE: Somerville, Massachusetts
GEI PROJECT NUMBER: 045163

GEI Consultants

GEI WOBURN STD 1-LOCATION-LAYER NAME MW400S.GPJ 1/29/26

LOCATION: 50 Tufts Street
GROUND SURFACE EL. (ft): NM
VERTICAL DATUM: NAVD 88
DATE START/END: 9/26/2025 - 10/22/2025
DRILLING COMPANY: Northern Drill Service, Inc.

BORING B404

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
	75	C13	74 to 79	60/60	90		BEDROCK	C13: SANDSTONE Fine-grained, hard, light gray, slightly weathered, very thin bedding, contains quartz intrusions, calcite healed fractures.
	80	C14	79 to 84.8	70/70	90			C14: SANDSTONE Fine-grained, hard, light gray, slightly weathered, very thin bedding, contains quartz, hematite and pyrite, calcite healed fractures, iron on fractures.
	85	C15	84.8 to 89.9	61/61	65			C15: SANDSTONE Fine-grained, hard, light gray, slightly weathered, very thin bedding, contains quartz, hematite and pyrite, calcite healed fractures, high angle fractures.
	90							Bottom of borehole at 90 feet. Completed as Monitoring Well (MW404).
	95							

NOTES: Hole cleared to 6' using vacuum excavation prior to drilling.

PROJECT NAME: 50 Tufts Street
CITY/STATE: Somerville, Massachusetts
GEI PROJECT NUMBER: 045163

GEI Consultants

GEI WOBURN STD 1-LOCATION-LAYER NAME MW400S.GPJ 1/29/26

BORING INFORMATION

LOCATION: New Washinton Street
GROUND SURFACE EL. (ft): NM
VERTICAL DATUM: NAVD 88
TOTAL DEPTH (ft): 20.0
LOGGED BY: C. McCallum-Green
DATE START/END: 10/2/2025 - 10/23/2025
DRILLING COMPANY: Northern Drill Service, Inc.
DRILLER NAME: S. Perry
RIG TYPE: Geoprobe 7822DT

BORING
B405
PAGE 1 of 1

DRILLING INFORMATION

HAMMER TYPE: Automatic
AUGER I.D./O.D.: NA / NA
DRILLING METHOD: Geoprobe
WATER LEVEL DEPTHS (ft): Not measured
CASING I.D./O.D.: 3 inch / NA
DRILL ROD O.D.: NM
CORE BARREL TYPE:
CORE BARREL I.D./O.D. NA / NA

ABBREVIATIONS:
Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation = Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer
S = Split Spoon Sample
C = Core Sample
U = Undisturbed Sample
SC = Sonic Core
DP = Direct Push Sample
HSA = Hollow-Stem Auger
Qp = Pocket Penetrometer Strength
Sv = Pocket Torvane Shear Strength
LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter
NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
							FILL	(0-0.33') ASPHALT (0.33-5'): NARROWLY GRADED SAND WITH SILT AND GRAVEL ~60% fine to medium sand, ~25% coarse gravel up to 2", ~15% nonplastic fines, brown, dry, contains brick, glass, and cobbles.
	5	DP1	5 to 10	60/43		PID=106.8ppm	CLAY/SAND	DP1: SANDY CLAY WITH GRAVEL ~35% medium plastic fines, ~35% fine to coarse sand, ~30% coarse gravel <1", gray, tight, wet, odor and staining 0-12".
	10	DP2	10 to 15	60/60		PID=0.0ppm		DP2 (0-18"): CLAY WITH SAND ~50% fine to medium sand, ~40% medium plastic fines, ~10% gravel <1", tanninsh gray, wet, tight. DP2 (18-28"): WIDELY GRADED SAND ~90% fine to coarse sand, ~10% gravel <1", brown, wet. (28-60"): CLAY WITH SAND ~50% fine to medium sand, ~40% medium plastic fines, ~10% gravel <1", tanninsh gray, wet, tight.
	15	DP3	15 to 18	36/36		PID=0.0ppm		DP3 (15-18'): CLAY WITH SAND ~45% fine to medium sand, ~40% medium plastic fines, ~15% gravel <1", tanninsh gray, wet, tight.
		DP4	18 to 20	24/21		PID=0.1ppm		DP4 (18-20'): CLAY WITH SAND ~45% fine to medium sand, ~40% medium plastic fines, ~15% gravel <1", tanninsh gray, wet, tight.
	20							Bottom of borehole at 20 feet. Completed as Monitoring Well (MW405).

NOTES: Hole cleared to 5' using vacuum excavation prior to drilling.

PROJECT NAME: 50 Tufts Street
CITY/STATE: Somerville, Massachusetts
GEI PROJECT NUMBER: 045163

GEI Consultants

GEI WOBURN STD 1-LOCATION-LAYER NAME MW400S.GPJ 1/29/26

BORING INFORMATION

LOCATION: Joy Street
GROUND SURFACE EL. (ft): NM
VERTICAL DATUM: NAVD 88
TOTAL DEPTH (ft): 14.0
LOGGED BY: C. McCallum-Green
DATE START/END: 10/2/2025 - 10/24/2025
DRILLING COMPANY: Northern Drill Service, Inc.
DRILLER NAME: S. Perry
RIG TYPE: Geoprobe 7822DT

BORING
B406
PAGE 1 of 1

DRILLING INFORMATION

HAMMER TYPE: Automatic
AUGER I.D./O.D.: NA / NA
DRILLING METHOD: Geoprobe
CASING I.D./O.D.: 3 inch / NA
DRILL ROD O.D.: NM
CORE BARREL TYPE:
CORE BARREL I.D./O.D. NA / NA
WATER LEVEL DEPTHS (ft): Not measured

ABBREVIATIONS:
Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation = Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer
S = Split Spoon Sample
C = Core Sample
U = Undisturbed Sample
SC = Sonic Core
DP = Direct Push Sample
HSA = Hollow-Stem Auger
Qp = Pocket Penetrometer Strength
Sv = Pocket Torvane Shear Strength
LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter
NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
							SAND	(0-0.25'): ASPHALT (0.25-5'): NARROWLY GRADED SAND WITH SILT AND GRAVEL ~65% fine to medium sand, ~25% gravel up to 3", ~10% nonplastic fines, brown, dry.
	5	DP1	5 to 10	60/60		PID=1.1ppm	SILTY SAND	DP1: SILTY SAND WITH GRAVEL ~55% fine to medium sand, ~30% gravel up to 1", ~15% nonplastic fines, gray to light tan, dry, contains weathered rock.
	10	DP2	10 to 14	48/48		PID=0.1ppm		DP2: SILTY SAND WITH GRAVEL ~50% fine to medium sand, ~30% gravel up to 1", ~20% nonplastic fines, gray to brown, wet 12-48", contains weathered rock, tight.
	15							Refusal at 14 feet. Bottom of borehole at 14 feet. Completed as Monitoring Well (MW406).

NOTES: Hole cleared to 5' using vacuum excavation prior to drilling.

PROJECT NAME: 50 Tufts Street
CITY/STATE: Somerville, Massachusetts
GEI PROJECT NUMBER: 045163

GEI Consultants

GEI WOBURN STD 1-LOCATION-LAYER NAME MW400S.GPJ 1/29/26

BORING INFORMATION

LOCATION: 31 Tufts Street
GROUND SURFACE EL. (ft): NM
VERTICAL DATUM: NAVD 88
TOTAL DEPTH (ft): 18.0
LOGGED BY: C. McCallum-Green
DATE START/END: 12/30/2025 - 12/30/2025
DRILLING COMPANY: Northern Drill Service, Inc.
DRILLER NAME: J. Flemming
RIG TYPE: Geoprobe 6620DT

BORING

B407

DRILLING INFORMATION

HAMMER TYPE: Automatic
AUGER I.D./O.D.: NA / NA
DRILLING METHOD: Geoprobe
WATER LEVEL DEPTHS (ft): Not measured
CASING I.D./O.D.: 4 inch / NA
DRILL ROD O.D.: NM
CORE BARREL TYPE:
CORE BARREL I.D./O.D. NA / NA

ABBREVIATIONS:
Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation = Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer
S = Split Spoon Sample
C = Core Sample
U = Undisturbed Sample
SC = Sonic Core
DP = Direct Push Sample
HSA = Hollow-Stem Auger
Qp = Pocket Penetrometer Strength
Sv = Pocket Torvane Shear Strength
LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter
NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
						PID=0.2ppm	SAND	(0-0.25): Road Ballast (0.25-5'): NARROWLY GRADED SAND WITH SILT AND GRAVEL ~60% fine to coarse sand, ~25% gravel up to 3", ~15% nonplastic fines, light to dark brown, dry.
	5	DP1	5 to 10	60/55		PID=0.0ppm		DP1: NARROWLY GRADED SAND WITH SILT AND GRAVEL ~60% fine to coarse sand, ~25% gravel less than 1", ~15% nonplastic fines, light to dark brown, dry 0-48", moist 48-55", contains asphalt and cement pieces.
	10	DP2	10 to 15	60/60		PID=0.1ppm		DP2: NARROWLY GRADED SAND WITH SILT AND GRAVEL ~65% fine to medium sand, ~20% gravel less than 1", ~15% nonplastic fines, light to dark brown with red seams, wet 12-60".
	15	DP3	15 to 18	36/36		PID=0.1ppm	SILTY SAND	DP3: SILTY SAND WITH GRAVEL ~60% fine to medium sand, ~20% gravel less than 1", ~20% nonplastic fines, light brown, wet.
								Refusal at 18 feet. Bottom of borehole at 18 feet. Completed as Monitoring Well (MW407).

NOTES: Hole cleared to 5' using vacuum excavation prior to drilling.

PROJECT NAME: 50 Tufts Street
CITY/STATE: Somerville, Massachusetts
GEI PROJECT NUMBER: 045163

GEI Consultants

GEI WOBURN STD 1-LOCATION-LAYER NAME MW400S.GPJ 1/29/26

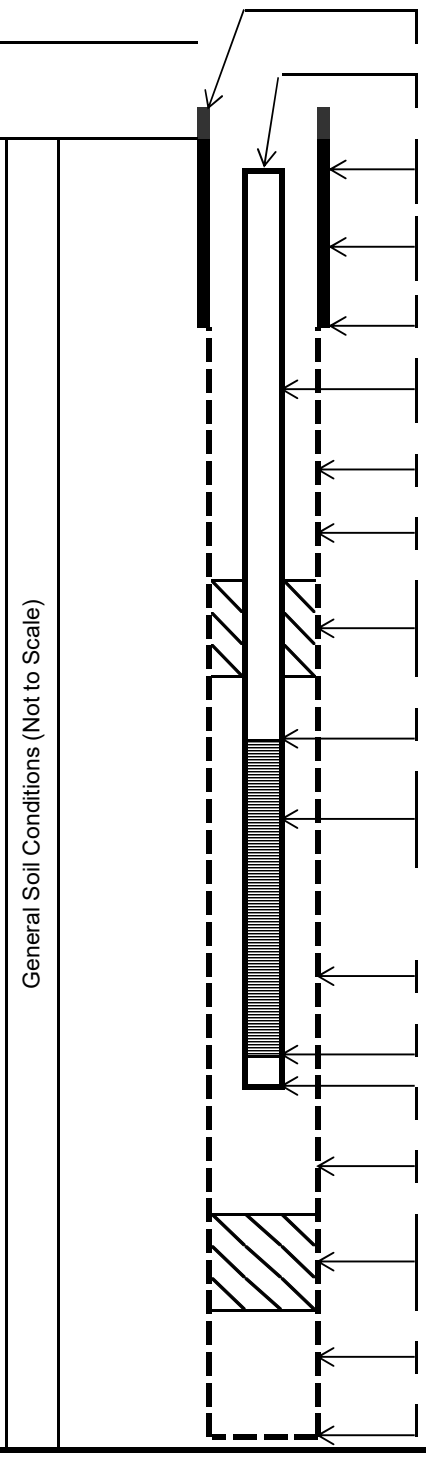
Groundwater Well Installation Log

MW401D

Project	50 Tufts Street	**GEI Proj. No.**	45163
City / Town	Somerville, MA	**Location**	86 Franklin Street
Client	Unifirst		
Contractor	Northern Drill Service		
Driller	C. Bierholm **GEI Rep.** C. McCallum-Green	**Install Date**	10/3/2025

Survey Datum:

Ground Elevation:



Date	Time	Distance to ▼ below top of riser pipe
10/28/2025	9:30	11'
10/3/2025	12:00	12.5'

Length of Surface Casing above Ground	0"
Dist. Top of Surf. Casing to Top of Riser Pipe	2"
Type and Thickness of Seal around Surface Casing	Cement
ID of Surface Casing	4"
Type of Surface Casing	Roadbox
Depth Bottom of Surface Casing	1'
ID and OD of Riser Pipe	2"/2.25"
Type of Riser Pipe	Schedule 40 PVC
Type of Backfill around Riser Pipe	Cement Grout
Diameter of Borehole	5"
Depth Top of Seal	27'
Type of Seal	Bentonite Chips
Depth Bottom of Seal	32'
Depth Top of Screened Section	34'
Type of Screen	Schedule 40 PVC
Description of Screen Openings	0.01"
ID and OD of Screened Section	2"/2.25"
Type of Filter Material	Silica Sand
Depth Bottom of Screened Section	44'
Depth Bottom of Silt Trap	44.2'
Depth Bottom of Filter Material	44.2'
Depth Top of Seal	NA
Type of Seal	NA
Depth Bottom of Seal	NA
Type of Backfill below Filter Material	NA
Bottom of Borehole	44.2'

Notes:

GEI Consultants

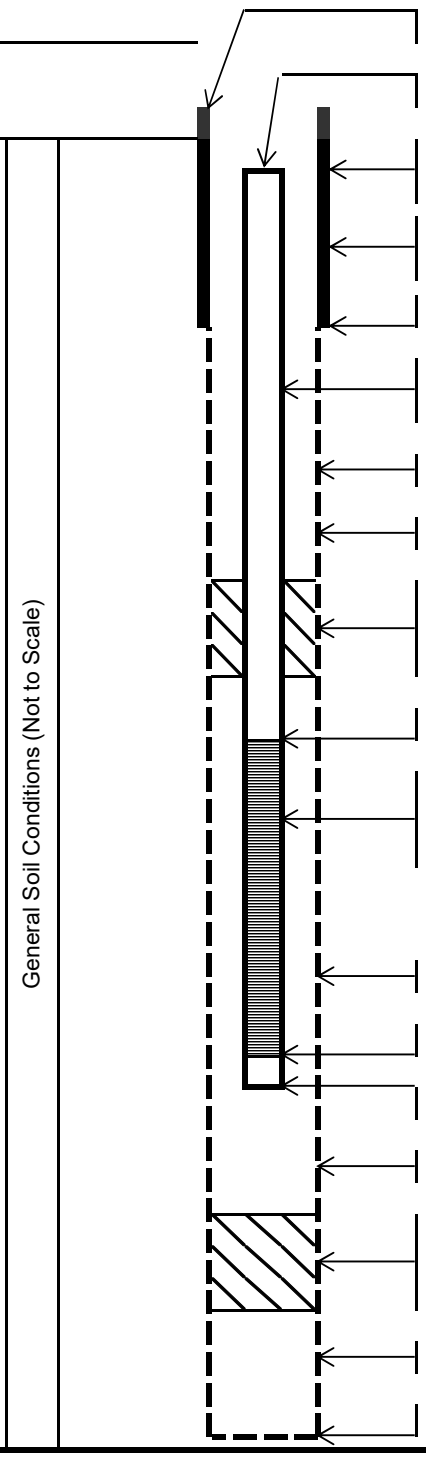
Groundwater Well Installation Log

MW401S

Project	50 Tufts Street	**GEI Proj. No.**	45163
City / Town	Somerville, MA	**Location**	86 Franklin Street
Client	Unifirst		
Contractor	Northern Drill Service		
Driller	C. Bierholm **GEI Rep.** C. McCallum-Green	**Install Date**	10/3/2025

Survey Datum:

Ground Elevation:



Length of Surface Casing above Ground	0"
Dist. Top of Surf. Casing to Top of Riser Pipe	3"
Type and Thickness of Seal around Surface Casing	Cement
ID of Surface Casing	4"
Type of Surface Casing	Roadbox
Depth Bottom of Surface Casing	1'
ID and OD of Riser Pipe	2"/2.25"
Type of Riser Pipe	Schedule 40 PVC
Type of Backfill around Riser Pipe	Silica Sand/Collapse
Diameter of Borehole	4"
Depth Top of Seal	6'
Type of Seal	Bentonite Chips
Depth Bottom of Seal	8'
Depth Top of Screened Section	10'
Type of Screen	Schedule 40 PVC
Description of Screen Openings	0.01"
ID and OD of Screened Section	2"/2.25"
Type of Filter Material	Silica Sand
Depth Bottom of Screened Section	20'
Depth Bottom of Silt Trap	20.2'
Depth Bottom of Filter Material	20.2'
Depth Top of Seal	NA
Type of Seal	NA
Depth Bottom of Seal	NA
Type of Backfill below Filter Material	NA
Bottom of Borehole	20.2'

Date	Time	Distance to ▼ below top of riser pipe
10/28/2025	11:00	11.15'

Notes:

GEI Consultants

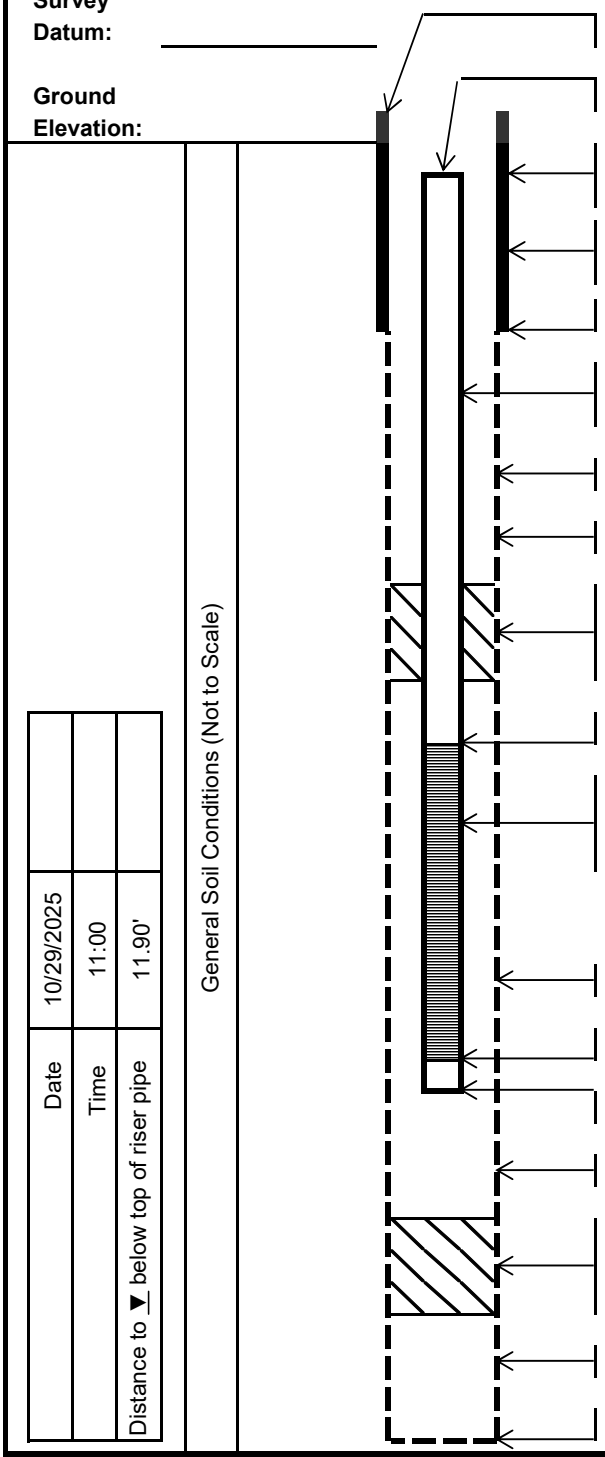
Groundwater Well Installation Log

MW402

Project	50 Tufts Street	**GEI Proj. No.**	45163
City / Town	Somerville, MA	**Location**	Knowlton x Morton
Client	Unifirst		
Contractor	Northern Drill Service		
Driller	C. Bierholm **GEI Rep.** C. McCallum-Green	**Install Date**	10/8/2025

Survey Datum:

Ground Elevation:



Date	Time	Distance to ▼ below top of riser pipe
10/29/2025	11:00	11.90'

Length of Surface Casing above Ground	0"
Dist. Top of Surf. Casing to Top of Riser Pipe	2"
Type and Thickness of Seal around Surface Casing	Cement
ID of Surface Casing	4"
Type of Surface Casing	Roadbox
Depth Bottom of Surface Casing	1'
ID and OD of Riser Pipe	2"/2.25"
Type of Riser Pipe	Schedule 40 PVC
Type of Backfill around Riser Pipe	Cement Grout and Bentonite Chips
Diameter of Borehole	5"
Depth Top of Seal	15.5'
Type of Seal	Bentonite Chips
Depth Bottom of Seal	18'
Depth Top of Screened Section	20'
Type of Screen	Schedule 40 PVC
Description of Screen Openings	0.01"
ID and OD of Screened Section	2"/2.25"
Type of Filter Material	Silica Sand
Depth Bottom of Screened Section	30'
Depth Bottom of Silt Trap	30.2'
Depth Bottom of Filter Material	30.7'
Depth Top of Seal	NA
Type of Seal	NA
Depth Bottom of Seal	NA
Type of Backfill below Filter Material	Silica Sand
Bottom of Borehole	30.7'

Notes: Driller switched grout method from cement to bentonite chips at ~7' because cement was lost to hole at the soil/weathered rock interface. Driller completed bentonite chips to 1'.

GEI Consultants

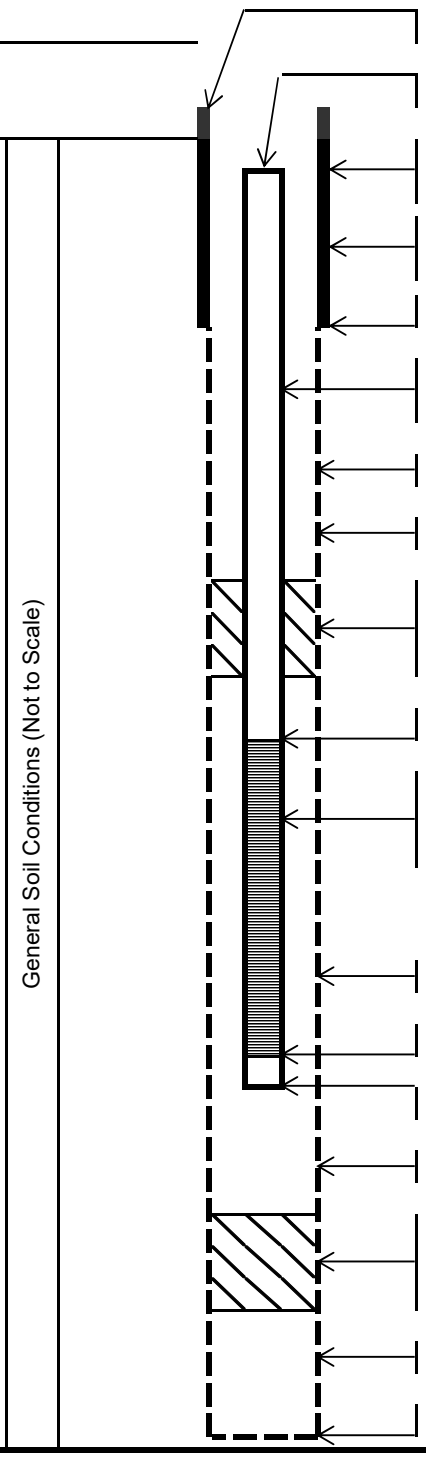
Groundwater Well Installation Log

MW403

Project	50 Tufts Street	**GEI Proj. No.**	45163
City / Town	Somerville, MA	**Location**	South 50 Tufts Street
Client	Unifirst		
Contractor	Northern Drill Service		
Driller	C. Bierholm **GEI Rep.** C. McCallum-Green	**Install Date**	10/17/2025

Survey Datum:

Ground Elevation:



Date	Time	Distance to ▼ below top of riser pipe
10/24/2025	7:30	12.24'

Length of Surface Casing above Ground	0"
Dist. Top of Surf. Casing to Top of Riser Pipe	5"
Type and Thickness of Seal around Surface Casing	Cement
ID of Surface Casing	4"
Type of Surface Casing	Roadbox
Depth Bottom of Surface Casing	1'
ID and OD of Riser Pipe	2"/2.25"
Type of Riser Pipe	Schedule 40 PVC
Type of Backfill around Riser Pipe	Cement Grout
Diameter of Borehole	5"
Depth Top of Seal	72'
Type of Seal	Bentonite Chips
Depth Bottom of Seal	78'
Depth Top of Screened Section	80'
Type of Screen	Schedule 40 PVC
Description of Screen Openings	0.01"
ID and OD of Screened Section	2"/2.25"
Type of Filter Material	Silica Sand
Depth Bottom of Screened Section	90'
Depth Bottom of Silt Trap	90.2'
Depth Bottom of Filter Material	90.8'
Depth Top of Seal	NA
Type of Seal	NA
Depth Bottom of Seal	NA
Type of Backfill below Filter Material	Silica Sand
Bottom of Borehole	90.8'

Notes:

GEI Consultants

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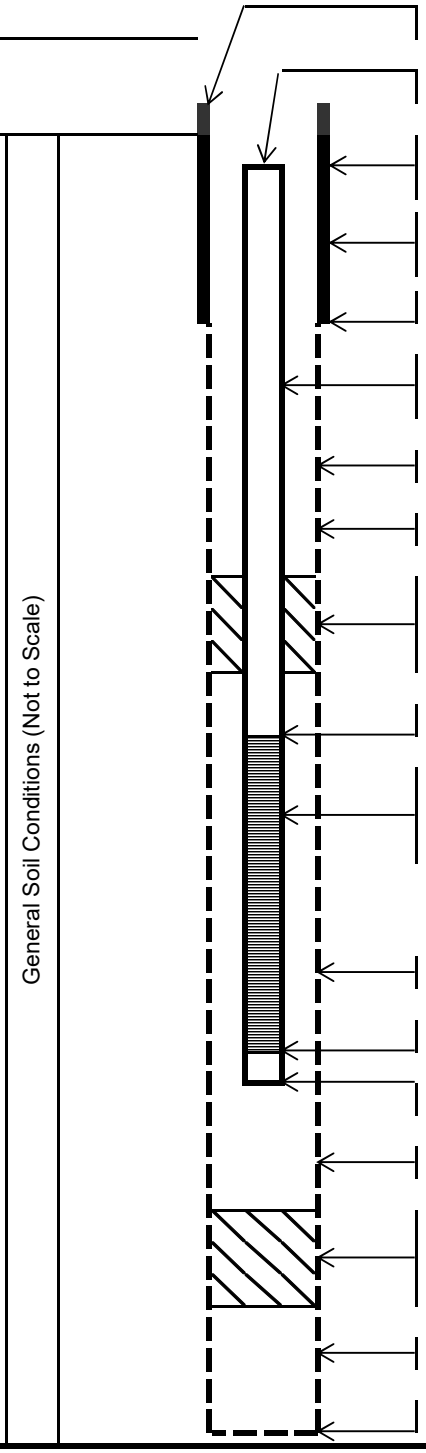
Groundwater Well Installation Log

MW404

Project	50 Tufts Street	**GEI Proj. No.**	45163
City / Town	Somerville, MA	**Location**	50 Tufts Street
Client	Unifirst		
Contractor	Northern Drill Service		
Driller	C. Bierholm **GEI Rep.** C. McCallum-Green	**Install Date**	10/24/2025

Survey Datum:

Ground Elevation:



Date	Time	Distance to ▼ below top of riser pipe
10/29/2025	10:00	13.2'

Length of Surface Casing above Ground	0"
Dist. Top of Surf. Casing to Top of Riser Pipe	3"
Type and Thickness of Seal around Surface Casing	Cement
ID of Surface Casing	4"
Type of Surface Casing	Roadbox
Depth Bottom of Surface Casing	1'
ID and OD of Riser Pipe	2"/2.25"
Type of Riser Pipe	Schedule 40 PVC
Type of Backfill around Riser Pipe	Cement Grout
Diameter of Borehole	5"
Depth Top of Seal	65'
Type of Seal	Bentonite Chips
Depth Bottom of Seal	70'
Depth Top of Screened Section	72.5'
Type of Screen	Schedule 40 PVC
Description of Screen Openings	0.01"
ID and OD of Screened Section	2"/2.25"
Type of Filter Material	Silica Sand
Depth Bottom of Screened Section	82.5'
Depth Bottom of Silt Trap	82.7'
Depth Bottom of Filter Material	83.5
Depth Top of Seal	83.5
Type of Seal	Bentonite Chips
Depth Bottom of Seal	87.5'
Type of Backfill below Filter Material	Collapse
Bottom of Borehole	90'

Notes:

GEI Consultants

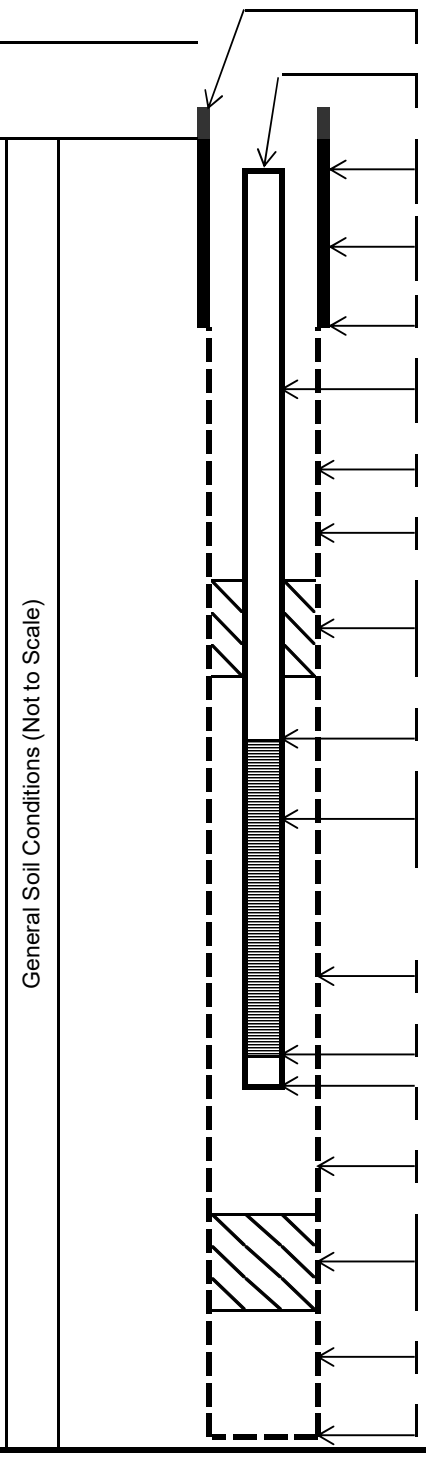
Groundwater Well Installation Log

MW405

Project	50 Tufts Street	**GEI Proj. No.**	45163
City / Town	Somerville, MA	**Location**	New Washington St.
Client	Unifirst		
Contractor	Northern Drill Service		
Driller	S. Perry	**GEI Rep.** C. McCallum-Green	**Install Date** 10/23/2025

Survey Datum:

Ground Elevation:



Date	Time	Distance to ▼ below top of riser pipe
10/29/2025	12:30	11.5'

Length of Surface Casing above Ground	0"
Dist. Top of Surf. Casing to Top of Riser Pipe	2"
Type and Thickness of Seal around Surface Casing	Cement
ID of Surface Casing	4"
Type of Surface Casing	Roadbox
Depth Bottom of Surface Casing	1'
ID and OD of Riser Pipe	2"/2.25"
Type of Riser Pipe	Schedule 40 PVC
Type of Backfill around Riser Pipe	Silica Sand
Diameter of Borehole	3"
Depth Top of Seal	5'
Type of Seal	Bentonite Chips
Depth Bottom of Seal	7'
Depth Top of Screened Section	8'
Type of Screen	Schedule 40 PVC
Description of Screen Openings	0.01"
ID and OD of Screened Section	2"/2.25"
Type of Filter Material	Silica Sand
Depth Bottom of Screened Section	18'
Depth Bottom of Silt Trap	18.2'
Depth Bottom of Filter Material	20'
Depth Top of Seal	NA
Type of Seal	NA
Depth Bottom of Seal	NA
Type of Backfill below Filter Material	Silica Sand
Bottom of Borehole	20'

Notes:

GEI Consultants

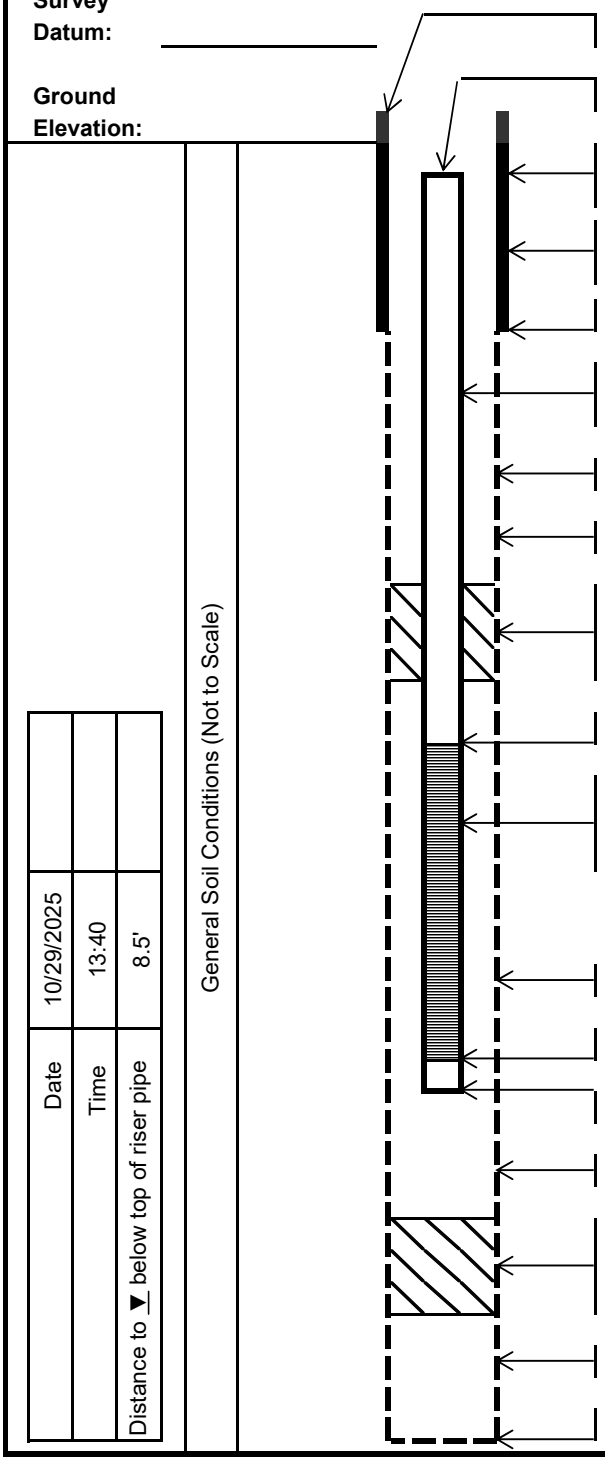
Groundwater Well Installation Log

MW406

Project	50 Tufts Street	**GEI Proj. No.**	45163
City / Town	Somerville, MA	**Location**	Joy Street
Client	Unifirst		
Contractor	Northern Drill Service		
Driller	S. Perry **GEI Rep.** C. McCallum-Green	**Install Date**	10/24/2025

Survey Datum:

Ground Elevation:



Length of Surface Casing above Ground	0"
Dist. Top of Surf. Casing to Top of Riser Pipe	2"
Type and Thickness of Seal around Surface Casing	Cement
ID of Surface Casing	4"
Type of Surface Casing	Roadbox
Depth Bottom of Surface Casing	1'
ID and OD of Riser Pipe	2"/2.25"
Type of Riser Pipe	Schedule 40 PVC
Type of Backfill around Riser Pipe	Silica Sand
Diameter of Borehole	3"
Depth Top of Seal	2.5'
Type of Seal	Bentonite Chips
Depth Bottom of Seal	3'
Depth Top of Screened Section	4'
Type of Screen	Schedule 40 PVC
Description of Screen Openings	0.01"
ID and OD of Screened Section	2"/2.25"
Type of Filter Material	Silica Sand
Depth Bottom of Screened Section	14'
Depth Bottom of Silt Trap	14.2'
Depth Bottom of Filter Material	14.2
Depth Top of Seal	NA
Type of Seal	NA
Depth Bottom of Seal	NA
Type of Backfill below Filter Material	NA
Bottom of Borehole	14.2

Date	Time	Distance to ▼ below top of riser pipe
10/29/2025	13:40	8.5'

Notes:

GEI Consultants

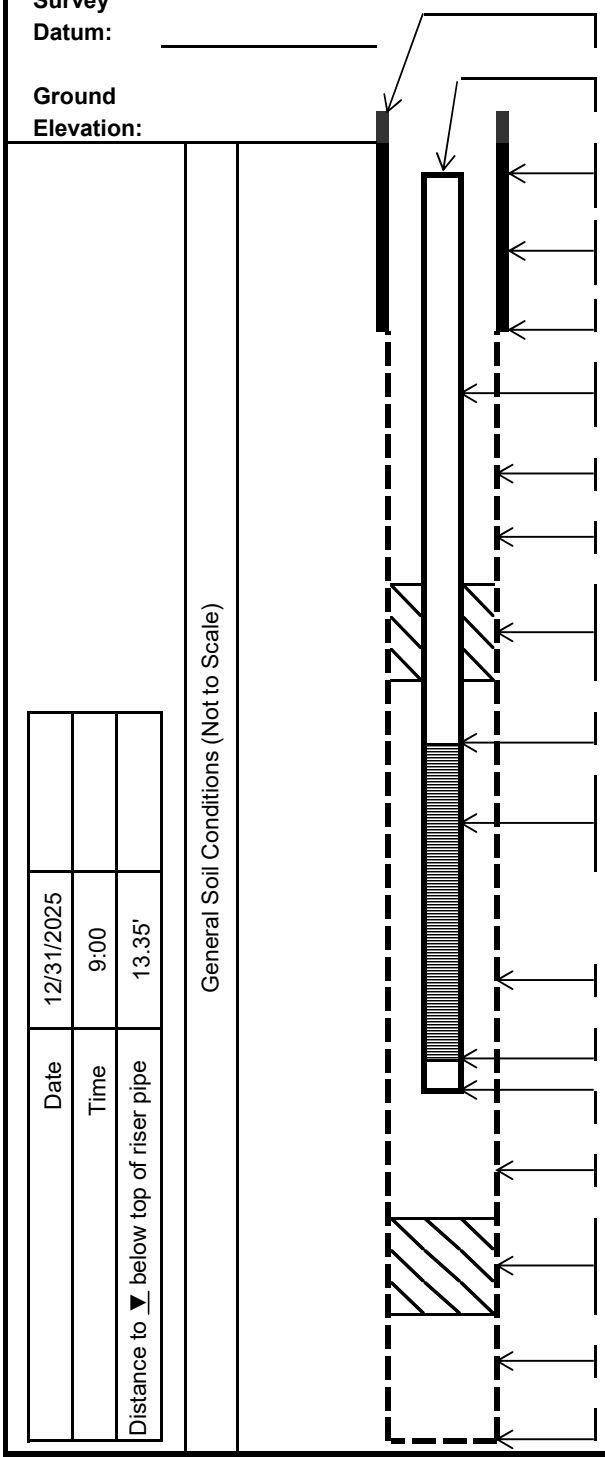
Groundwater Well Installation Log

MW407

Project	50 Tufts Street	**GEI Proj. No.**	45163
City / Town	Somerville, MA	**Location**	31 Tufts Street
Client	Unifirst		
Contractor	Northern Drill Service		
Driller	J. Flemming **GEI Rep.** C. McCallum-Green	**Install Date**	12/30/2025

Survey Datum:

Ground Elevation:



Length of Surface Casing above Ground	0"
Dist. Top of Surf. Casing to Top of Riser Pipe	2"
Type and Thickness of Seal around Surface Casing	Cement
ID of Surface Casing	4"
Type of Surface Casing	Roadbox
Depth Bottom of Surface Casing	1'
ID and OD of Riser Pipe	2"/2.25"
Type of Riser Pipe	Schedule 40 PVC
Type of Backfill around Riser Pipe	Silica Sand
Diameter of Borehole	4"
Depth Top of Seal	2"
Type of Seal	Bentonite Chips
Depth Bottom of Seal	3.5"
Depth Top of Screened Section	4.45'
Type of Screen	Schedule 40 PVC
Description of Screen Openings	0.01"
ID and OD of Screened Section	2"/2.25"
Type of Filter Material	Silica Sand
Depth Bottom of Screened Section	14.45'
Depth Bottom of Silt Trap	14.6'
Depth Bottom of Filter Material	14.6'
Depth Top of Seal	NA
Type of Seal	NA
Depth Bottom of Seal	NA
Type of Backfill below Filter Material	NA
Bottom of Borehole	14.6'

Notes:

Borehole drilled to 18 feet; however, casing could only be drilled to 14.6 feet to install well.

GEI Consultants

Appendix D Laboratory Testing Reports

ANALYTICAL REPORT

Lab Number:	L2564441
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	50 TUFTS STREET
Project Number:	045163
Report Date:	10/23/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2564441
Report Date: 10/23/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2564441-01	045163-MW403-(8-9')	SOIL	SOMERVILLE, MASSACHUSETTS	10/09/25 08:30	10/10/25
L2564441-02	045163-MW403-(13-14')	SOIL	SOMERVILLE, MASSACHUSETTS	10/09/25 09:15	10/10/25
L2564441-03	045163-MW403-(16-17')	SOIL	SOMERVILLE, MASSACHUSETTS	10/09/25 09:50	10/10/25
L2564441-04	TRIP BLANK	SOIL	SOMERVILLE, MASSACHUSETTS	10/09/25 12:00	10/10/25

Project Name: 50 TUFTS STREET **Lab Number:** L2564441

Project Number: 045163 **Report Date:** 10/23/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E 1.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E 2.	PFAS Only: Were aqueous samples extracted without filtering?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits/lower limits of quantitation at or below all CAM reporting limits/lower limits of quantitation specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	50 TUFTS STREET	**Lab Number:**	L2564441
Project Number:	045163	**Report Date:**	10/23/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 50 TUFTS STREET **Lab Number:** L2564441
Project Number: 045163 **Report Date:** 10/23/25

Case Narrative (continued)

MCP Related Narratives

Volatile Organics

L2564441-01: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to excessive sample weight. A High Level analysis was performed and reported.

In reference to question G:

L2564441-01 through -04: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L2564441-01 and -02: Initial Calibration did not meet:

Lowest Calibration Standard Minimum Response Factor: bromodichloromethane (0.2646), 1,4-dioxane (0.0013), 1,1,2-trichloroethane (0.1873)

Average Response Factor: 1,4-dioxane

Verification: acetone (65%)

L2564441-03 and -04: Initial Calibration did not meet:

Lowest Calibration Standard Minimum Response Factor: 1,4-dioxane (0.0018), 1,1,2-trichloroethane (0.1851)

Average Response Factor: 1,4-dioxane

L2564441-01, -02, -03, and -04: The associated continuing calibration standard is outside the acceptance criteria for several compounds; however, it is within overall method allowances. Associated results are considered to be biased high if the %D is negative and biased low if the %D is positive. A copy of the continuing calibration standard is included as an addendum to this report.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 10/23/25

QC OUTLIER SUMMARY REPORT

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2564441
Report Date: 10/23/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
MCP Volatile Organics by EPA 5035 High - Westborough Lab								
8260D	Batch QC	WG2131185-3	Methyl isobutyl ketone	LCS	69	70-130	01-03	potential low bias
8260D	Batch QC	WG2131185-3	2-Hexanone	LCS	66	70-130	01-03	potential low bias
8260D	Batch QC	WG2131185-3	1,2-Dibromo-3-chloropropane	LCS	67	70-130	01-03	potential low bias
8260D	Batch QC	WG2131807-4	Bromomethane	LCSD	69	70-130	03-04	potential low bias

ORGANICS

VOLATILES

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2564441
Report Date: 10/23/25

SAMPLE RESULTS

Lab ID: L2564441-01
Client ID: 045163-MW403-(8-9')
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 10/09/25 08:30
Date Received: 10/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 10/21/25 22:02
Analyst: JIC
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	320	--	1
1,1-Dichloroethane	ND		ug/kg	65	--	1
Chloroform	ND		ug/kg	97	--	1
Carbon tetrachloride	ND		ug/kg	65	--	1
1,2-Dichloropropane	ND		ug/kg	65	--	1
Dibromochloromethane	ND		ug/kg	65	--	1
1,1,2-Trichloroethane	ND		ug/kg	65	--	1
Tetrachloroethene	130		ug/kg	32	--	1
Chlorobenzene	ND		ug/kg	32	--	1
Trichlorofluoromethane	ND		ug/kg	260	--	1
1,2-Dichloroethane	ND		ug/kg	65	--	1
1,1,1-Trichloroethane	ND		ug/kg	32	--	1
Bromodichloromethane	ND		ug/kg	32	--	1
trans-1,3-Dichloropropene	ND		ug/kg	65	--	1
cis-1,3-Dichloropropene	ND		ug/kg	32	--	1
1,3-Dichloropropene, Total	ND		ug/kg	32	--	1
1,1-Dichloropropene	ND		ug/kg	32	--	1
Bromoform	ND		ug/kg	260	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	32	--	1
Benzene	ND		ug/kg	32	--	1
Toluene	ND		ug/kg	65	--	1
Ethylbenzene	ND		ug/kg	65	--	1
Chloromethane	ND		ug/kg	260	--	1
Bromomethane	ND		ug/kg	130	--	1
Vinyl chloride	ND		ug/kg	65	--	1
Chloroethane	ND		ug/kg	130	--	1
1,1-Dichloroethene	ND		ug/kg	65	--	1
trans-1,2-Dichloroethene	ND		ug/kg	97	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2564441

Project Number: 045163 **Report Date:** 10/23/25

SAMPLE RESULTS

Lab ID: L2564441-01 Date Collected: 10/09/25 08:30

Client ID: 045163-MW403-(8-9') Date Received: 10/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	32	--	1
1,2-Dichlorobenzene	ND		ug/kg	130	--	1
1,3-Dichlorobenzene	ND		ug/kg	130	--	1
1,4-Dichlorobenzene	ND		ug/kg	130	--	1
Methyl tert butyl ether	ND		ug/kg	130	--	1
p/m-Xylene	ND		ug/kg	130	--	1
o-Xylene	ND		ug/kg	65	--	1
Xylenes, Total	ND		ug/kg	65	--	1
cis-1,2-Dichloroethene	ND		ug/kg	65	--	1
1,2-Dichloroethene, Total	ND		ug/kg	65	--	1
Dibromomethane	ND		ug/kg	130	--	1
1,2,3-Trichloropropane	ND		ug/kg	130	--	1
Styrene	ND		ug/kg	65	--	1
Dichlorodifluoromethane	ND		ug/kg	650	--	1
Acetone	ND		ug/kg	650	--	1
Carbon disulfide	ND		ug/kg	650	--	1
Methyl ethyl ketone	ND		ug/kg	650	--	1
Methyl isobutyl ketone	ND		ug/kg	650	--	1
2-Hexanone	ND		ug/kg	650	--	1
Bromochloromethane	ND		ug/kg	130	--	1
Tetrahydrofuran	ND		ug/kg	260	--	1
2,2-Dichloropropane	ND		ug/kg	130	--	1
1,2-Dibromoethane	ND		ug/kg	65	--	1
1,3-Dichloropropane	ND		ug/kg	130	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	32	--	1
Bromobenzene	ND		ug/kg	130	--	1
n-Butylbenzene	ND		ug/kg	65	--	1
sec-Butylbenzene	ND		ug/kg	65	--	1
tert-Butylbenzene	ND		ug/kg	130	--	1
o-Chlorotoluene	ND		ug/kg	130	--	1
p-Chlorotoluene	ND		ug/kg	130	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	190	--	1
Hexachlorobutadiene	ND		ug/kg	260	--	1
Isopropylbenzene	ND		ug/kg	65	--	1
p-Isopropyltoluene	ND		ug/kg	65	--	1
Naphthalene	ND		ug/kg	260	--	1
n-Propylbenzene	ND		ug/kg	65	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2564441

Project Number: 045163 **Report Date:** 10/23/25

SAMPLE RESULTS

Lab ID: L2564441-01 Date Collected: 10/09/25 08:30

Client ID: 045163-MW403-(8-9') Date Received: 10/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	130	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	130	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	130	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	130	--	1
Diethyl ether	ND		ug/kg	130	--	1
Diisopropyl Ether	ND		ug/kg	130	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	130	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	130	--	1
1,4-Dioxane	ND		ug/kg	5200	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	100		70-130

Project Name: 50 TUFTS STREET **Lab Number:** L2564441

Project Number: 045163 **Report Date:** 10/23/25

SAMPLE RESULTS

Lab ID: L2564441-02 Date Collected: 10/09/25 09:15

Client ID: 045163-MW403-(13-14') Date Received: 10/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 141,8260D

Analytical Date: 10/21/25 22:23

Analyst: JIC

Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	240	--	1
1,1-Dichloroethane	ND		ug/kg	49	--	1
Chloroform	ND		ug/kg	73	--	1
Carbon tetrachloride	ND		ug/kg	49	--	1
1,2-Dichloropropane	ND		ug/kg	49	--	1
Dibromochloromethane	ND		ug/kg	49	--	1
1,1,2-Trichloroethane	ND		ug/kg	49	--	1
Tetrachloroethene	1100		ug/kg	24	--	1
Chlorobenzene	ND		ug/kg	24	--	1
Trichlorofluoromethane	ND		ug/kg	190	--	1
1,2-Dichloroethane	ND		ug/kg	49	--	1
1,1,1-Trichloroethane	ND		ug/kg	24	--	1
Bromodichloromethane	ND		ug/kg	24	--	1
trans-1,3-Dichloropropene	ND		ug/kg	49	--	1
cis-1,3-Dichloropropene	ND		ug/kg	24	--	1
1,3-Dichloropropene, Total	ND		ug/kg	24	--	1
1,1-Dichloropropene	ND		ug/kg	24	--	1
Bromoform	ND		ug/kg	190	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	24	--	1
Benzene	ND		ug/kg	24	--	1
Toluene	ND		ug/kg	49	--	1
Ethylbenzene	ND		ug/kg	49	--	1
Chloromethane	ND		ug/kg	190	--	1
Bromomethane	ND		ug/kg	97	--	1
Vinyl chloride	ND		ug/kg	49	--	1
Chloroethane	ND		ug/kg	97	--	1
1,1-Dichloroethene	ND		ug/kg	49	--	1
trans-1,2-Dichloroethene	ND		ug/kg	73	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2564441

Project Number: 045163 **Report Date:** 10/23/25

SAMPLE RESULTS

Lab ID: L2564441-02 Date Collected: 10/09/25 09:15

Client ID: 045163-MW403-(13-14') Date Received: 10/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	300		ug/kg	24	--	1
1,2-Dichlorobenzene	ND		ug/kg	97	--	1
1,3-Dichlorobenzene	ND		ug/kg	97	--	1
1,4-Dichlorobenzene	ND		ug/kg	97	--	1
Methyl tert butyl ether	ND		ug/kg	97	--	1
p/m-Xylene	ND		ug/kg	97	--	1
o-Xylene	ND		ug/kg	49	--	1
Xylenes, Total	ND		ug/kg	49	--	1
cis-1,2-Dichloroethene	270		ug/kg	49	--	1
1,2-Dichloroethene, Total	270		ug/kg	49	--	1
Dibromomethane	ND		ug/kg	97	--	1
1,2,3-Trichloropropane	ND		ug/kg	97	--	1
Styrene	ND		ug/kg	49	--	1
Dichlorodifluoromethane	ND		ug/kg	490	--	1
Acetone	ND		ug/kg	490	--	1
Carbon disulfide	ND		ug/kg	490	--	1
Methyl ethyl ketone	ND		ug/kg	490	--	1
Methyl isobutyl ketone	ND		ug/kg	490	--	1
2-Hexanone	ND		ug/kg	490	--	1
Bromochloromethane	ND		ug/kg	97	--	1
Tetrahydrofuran	ND		ug/kg	190	--	1
2,2-Dichloropropane	ND		ug/kg	97	--	1
1,2-Dibromoethane	ND		ug/kg	49	--	1
1,3-Dichloropropane	ND		ug/kg	97	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	24	--	1
Bromobenzene	ND		ug/kg	97	--	1
n-Butylbenzene	ND		ug/kg	49	--	1
sec-Butylbenzene	ND		ug/kg	49	--	1
tert-Butylbenzene	ND		ug/kg	97	--	1
o-Chlorotoluene	ND		ug/kg	97	--	1
p-Chlorotoluene	ND		ug/kg	97	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--	1
Hexachlorobutadiene	ND		ug/kg	190	--	1
Isopropylbenzene	ND		ug/kg	49	--	1
p-Isopropyltoluene	ND		ug/kg	49	--	1
Naphthalene	ND		ug/kg	190	--	1
n-Propylbenzene	ND		ug/kg	49	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2564441

Project Number: 045163 **Report Date:** 10/23/25

SAMPLE RESULTS

Lab ID: L2564441-02 Date Collected: 10/09/25 09:15

Client ID: 045163-MW403-(13-14') Date Received: 10/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	97	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	97	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	97	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	97	--	1
Diethyl ether	ND		ug/kg	97	--	1
Diisopropyl Ether	ND		ug/kg	97	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	97	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	97	--	1
1,4-Dioxane	ND		ug/kg	3900	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	97		70-130

Project Name: 50 TUFTS STREET **Lab Number:** L2564441

Project Number: 045163 **Report Date:** 10/23/25

SAMPLE RESULTS

Lab ID: L2564441-03 Date Collected: 10/09/25 09:50

Client ID: 045163-MW403-(16-17') Date Received: 10/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 141,8260D

Analytical Date: 10/22/25 12:47

Analyst: MNF

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	150	--	1
1,1-Dichloroethane	89		ug/kg	29	--	1
Chloroform	ND		ug/kg	44	--	1
Carbon tetrachloride	ND		ug/kg	29	--	1
1,2-Dichloropropane	ND		ug/kg	29	--	1
Dibromochloromethane	ND		ug/kg	29	--	1
1,1,2-Trichloroethane	ND		ug/kg	29	--	1
Tetrachloroethene	10000	E	ug/kg	15	--	1
Chlorobenzene	ND		ug/kg	15	--	1
Trichlorofluoromethane	ND		ug/kg	120	--	1
1,2-Dichloroethane	ND		ug/kg	29	--	1
1,1,1-Trichloroethane	35		ug/kg	15	--	1
Bromodichloromethane	ND		ug/kg	15	--	1
trans-1,3-Dichloropropene	ND		ug/kg	29	--	1
cis-1,3-Dichloropropene	ND		ug/kg	15	--	1
1,3-Dichloropropene, Total	ND		ug/kg	15	--	1
1,1-Dichloropropene	ND		ug/kg	15	--	1
Bromoform	ND		ug/kg	120	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	15	--	1
Benzene	ND		ug/kg	15	--	1
Toluene	31		ug/kg	29	--	1
Ethylbenzene	ND		ug/kg	29	--	1
Chloromethane	ND		ug/kg	120	--	1
Bromomethane	ND		ug/kg	59	--	1
Vinyl chloride	250		ug/kg	29	--	1
Chloroethane	ND		ug/kg	59	--	1
1,1-Dichloroethene	ND		ug/kg	29	--	1
trans-1,2-Dichloroethene	56		ug/kg	44	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2564441

Project Number: 045163 **Report Date:** 10/23/25

SAMPLE RESULTS

Lab ID: L2564441-03 Date Collected: 10/09/25 09:50

Client ID: 045163-MW403-(16-17') Date Received: 10/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	860		ug/kg	15	--	1
1,2-Dichlorobenzene	ND		ug/kg	59	--	1
1,3-Dichlorobenzene	ND		ug/kg	59	--	1
1,4-Dichlorobenzene	ND		ug/kg	59	--	1
Methyl tert butyl ether	ND		ug/kg	59	--	1
p/m-Xylene	ND		ug/kg	59	--	1
o-Xylene	ND		ug/kg	29	--	1
Xylenes, Total	ND		ug/kg	29	--	1
cis-1,2-Dichloroethene	1300		ug/kg	29	--	1
1,2-Dichloroethene, Total	1400		ug/kg	29	--	1
Dibromomethane	ND		ug/kg	59	--	1
1,2,3-Trichloropropane	ND		ug/kg	59	--	1
Styrene	ND		ug/kg	29	--	1
Dichlorodifluoromethane	ND		ug/kg	290	--	1
Acetone	ND		ug/kg	290	--	1
Carbon disulfide	ND		ug/kg	290	--	1
Methyl ethyl ketone	ND		ug/kg	290	--	1
Methyl isobutyl ketone	ND		ug/kg	290	--	1
2-Hexanone	ND		ug/kg	290	--	1
Bromochloromethane	ND		ug/kg	59	--	1
Tetrahydrofuran	ND		ug/kg	120	--	1
2,2-Dichloropropane	ND		ug/kg	59	--	1
1,2-Dibromoethane	ND		ug/kg	29	--	1
1,3-Dichloropropane	ND		ug/kg	59	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	15	--	1
Bromobenzene	ND		ug/kg	59	--	1
n-Butylbenzene	ND		ug/kg	29	--	1
sec-Butylbenzene	ND		ug/kg	29	--	1
tert-Butylbenzene	ND		ug/kg	59	--	1
o-Chlorotoluene	ND		ug/kg	59	--	1
p-Chlorotoluene	ND		ug/kg	59	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	88	--	1
Hexachlorobutadiene	ND		ug/kg	120	--	1
Isopropylbenzene	ND		ug/kg	29	--	1
p-Isopropyltoluene	74		ug/kg	29	--	1
Naphthalene	ND		ug/kg	120	--	1
n-Propylbenzene	ND		ug/kg	29	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2564441

Project Number: 045163 **Report Date:** 10/23/25

SAMPLE RESULTS

Lab ID: L2564441-03 Date Collected: 10/09/25 09:50

Client ID: 045163-MW403-(16-17') Date Received: 10/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	59	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	59	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	59	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	59	--	1
Diethyl ether	ND		ug/kg	59	--	1
Diisopropyl Ether	ND		ug/kg	59	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	59	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	59	--	1
1,4-Dioxane	ND		ug/kg	2400	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	103		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2564441
Report Date: 10/23/25

SAMPLE RESULTS

Lab ID: L2564441-03 D
Client ID: 045163-MW403-(16-17')
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 10/09/25 09:50
Date Received: 10/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 10/21/25 22:44
Analyst: JIC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Tetrachloroethene	11000		ug/kg	150	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	101		70-130

Project Name: 50 TUFTS STREET **Lab Number:** L2564441

Project Number: 045163 **Report Date:** 10/23/25

SAMPLE RESULTS

Lab ID: L2564441-04 Date Collected: 10/09/25 12:00

Client ID: TRIP BLANK Date Received: 10/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 141,8260D

Analytical Date: 10/22/25 12:20

Analyst: MNF

Percent Solids: Results Reported on an "AS RECEIVED" basis

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	250	--	1
1,1-Dichloroethane	ND		ug/kg	50	--	1
Chloroform	ND		ug/kg	75	--	1
Carbon tetrachloride	ND		ug/kg	50	--	1
1,2-Dichloropropane	ND		ug/kg	50	--	1
Dibromochloromethane	ND		ug/kg	50	--	1
1,1,2-Trichloroethane	ND		ug/kg	50	--	1
Tetrachloroethene	ND		ug/kg	25	--	1
Chlorobenzene	ND		ug/kg	25	--	1
Trichlorofluoromethane	ND		ug/kg	200	--	1
1,2-Dichloroethane	ND		ug/kg	50	--	1
1,1,1-Trichloroethane	ND		ug/kg	25	--	1
Bromodichloromethane	ND		ug/kg	25	--	1
trans-1,3-Dichloropropene	ND		ug/kg	50	--	1
cis-1,3-Dichloropropene	ND		ug/kg	25	--	1
1,3-Dichloropropene, Total	ND		ug/kg	25	--	1
1,1-Dichloropropene	ND		ug/kg	25	--	1
Bromoform	ND		ug/kg	200	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--	1
Benzene	ND		ug/kg	25	--	1
Toluene	ND		ug/kg	50	--	1
Ethylbenzene	ND		ug/kg	50	--	1
Chloromethane	ND		ug/kg	200	--	1
Bromomethane	ND		ug/kg	100	--	1
Vinyl chloride	ND		ug/kg	50	--	1
Chloroethane	ND		ug/kg	100	--	1
1,1-Dichloroethene	ND		ug/kg	50	--	1
trans-1,2-Dichloroethene	ND		ug/kg	75	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2564441

Project Number: 045163 **Report Date:** 10/23/25

SAMPLE RESULTS

Lab ID: L2564441-04 Date Collected: 10/09/25 12:00

Client ID: TRIP BLANK Date Received: 10/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	25	--	1
1,2-Dichlorobenzene	ND		ug/kg	100	--	1
1,3-Dichlorobenzene	ND		ug/kg	100	--	1
1,4-Dichlorobenzene	ND		ug/kg	100	--	1
Methyl tert butyl ether	ND		ug/kg	100	--	1
p/m-Xylene	ND		ug/kg	100	--	1
o-Xylene	ND		ug/kg	50	--	1
Xylenes, Total	ND		ug/kg	50	--	1
cis-1,2-Dichloroethene	ND		ug/kg	50	--	1
1,2-Dichloroethene, Total	ND		ug/kg	50	--	1
Dibromomethane	ND		ug/kg	100	--	1
1,2,3-Trichloropropane	ND		ug/kg	100	--	1
Styrene	ND		ug/kg	50	--	1
Dichlorodifluoromethane	ND		ug/kg	500	--	1
Acetone	ND		ug/kg	500	--	1
Carbon disulfide	ND		ug/kg	500	--	1
Methyl ethyl ketone	ND		ug/kg	500	--	1
Methyl isobutyl ketone	ND		ug/kg	500	--	1
2-Hexanone	ND		ug/kg	500	--	1
Bromochloromethane	ND		ug/kg	100	--	1
Tetrahydrofuran	ND		ug/kg	200	--	1
2,2-Dichloropropane	ND		ug/kg	100	--	1
1,2-Dibromoethane	ND		ug/kg	50	--	1
1,3-Dichloropropane	ND		ug/kg	100	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--	1
Bromobenzene	ND		ug/kg	100	--	1
n-Butylbenzene	ND		ug/kg	50	--	1
sec-Butylbenzene	ND		ug/kg	50	--	1
tert-Butylbenzene	ND		ug/kg	100	--	1
o-Chlorotoluene	ND		ug/kg	100	--	1
p-Chlorotoluene	ND		ug/kg	100	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--	1
Hexachlorobutadiene	ND		ug/kg	200	--	1
Isopropylbenzene	ND		ug/kg	50	--	1
p-Isopropyltoluene	ND		ug/kg	50	--	1
Naphthalene	ND		ug/kg	200	--	1
n-Propylbenzene	ND		ug/kg	50	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2564441

Project Number: 045163 **Report Date:** 10/23/25

SAMPLE RESULTS

Lab ID: L2564441-04 Date Collected: 10/09/25 12:00

Client ID: TRIP BLANK Date Received: 10/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	100	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	100	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	100	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	100	--	1
Diethyl ether	ND		ug/kg	100	--	1
Diisopropyl Ether	ND		ug/kg	100	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--	1
1,4-Dioxane	ND		ug/kg	4000	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	103		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2564441
Report Date: 10/23/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 10/21/25 17:53
Analyst: JKH

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01-03 Batch: WG2131185-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2564441
Report Date: 10/23/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 10/21/25 17:53
Analyst: JKH

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01-03 Batch: WG2131185-5					
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	100	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2564441
Report Date: 10/23/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 10/21/25 17:53
Analyst: JKH

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01-03 Batch: WG2131185-5					
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2564441
Report Date: 10/23/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 10/21/25 17:53
Analyst: JKH

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01-03 Batch: WG2131185-5					
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	97		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2564441
Report Date: 10/23/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 10/22/25 09:08
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03-04 Batch: WG2131807-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2564441
Report Date: 10/23/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 10/22/25 09:08
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03-04 Batch: WG2131807-5					
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	100	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2564441
Report Date: 10/23/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 10/22/25 09:08
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03-04 Batch: WG2131807-5					
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2564441
Report Date: 10/23/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 10/22/25 09:08
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03-04 Batch: WG2131807-5					
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	106		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2564441
Report Date: 10/23/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01-03 Batch: WG2131185-3 WG2131185-4								
Methylene chloride	85		84		70-130	1		20
1,1-Dichloroethane	89		89		70-130	0		20
Chloroform	88		88		70-130	0		20
Carbon tetrachloride	87		89		70-130	2		20
1,2-Dichloropropane	87		87		70-130	0		20
Dibromochloromethane	80		85		70-130	6		20
1,1,2-Trichloroethane	83		84		70-130	1		20
Tetrachloroethene	94		95		70-130	1		20
Chlorobenzene	88		89		70-130	1		20
Trichlorofluoromethane	93		92		70-130	1		20
1,2-Dichloroethane	84		84		70-130	0		20
1,1,1-Trichloroethane	90		89		70-130	1		20
Bromodichloromethane	83		86		70-130	4		20
trans-1,3-Dichloropropene	80		84		70-130	5		20
cis-1,3-Dichloropropene	85		85		70-130	0		20
1,1-Dichloropropene	87		86		70-130	1		20
Bromoform	74		75		70-130	1		20
1,1,2,2-Tetrachloroethane	80		76		70-130	5		20
Benzene	91		90		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2564441
Report Date: 10/23/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01-03 Batch: WG2131185-3 WG2131185-4								
Toluene	91		91		70-130	0		20
Ethylbenzene	90		92		70-130	2		20
Chloromethane	90		87		70-130	3		20
Bromomethane	82		82		70-130	0		20
Vinyl chloride	90		88		70-130	2		20
Chloroethane	95		94		70-130	1		20
1,1-Dichloroethene	92		90		70-130	2		20
trans-1,2-Dichloroethene	92		92		70-130	0		20
Trichloroethene	92		94		70-130	2		20
1,2-Dichlorobenzene	90		88		70-130	2		20
1,3-Dichlorobenzene	92		90		70-130	2		20
1,4-Dichlorobenzene	92		90		70-130	2		20
Methyl tert butyl ether	84		83		70-130	1		20
p/m-Xylene	93		95		70-130	2		20
o-Xylene	94		95		70-130	1		20
cis-1,2-Dichloroethene	90		88		70-130	2		20
Dibromomethane	84		84		70-130	0		20
1,2,3-Trichloropropane	80		81		70-130	1		20
Styrene	93		96		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2564441
Report Date: 10/23/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01-03 Batch: WG2131185-3 WG2131185-4								
Dichlorodifluoromethane	93		90		70-130	3		20
Acetone	94		102		70-130	8		20
Carbon disulfide	85		88		70-130	3		20
Methyl ethyl ketone	77		79		70-130	3		20
Methyl isobutyl ketone	**69**	Q	73		70-130	6		20
2-Hexanone	**66**	Q	70		70-130	6		20
Bromochloromethane	87		86		70-130	1		20
Tetrahydrofuran	92		93		70-130	1		20
2,2-Dichloropropane	86		85		70-130	1		20
1,2-Dibromoethane	82		86		70-130	5		20
1,3-Dichloropropane	84		85		70-130	1		20
1,1,1,2-Tetrachloroethane	88		91		70-130	3		20
Bromobenzene	91		88		70-130	3		20
n-Butylbenzene	95		95		70-130	0		20
sec-Butylbenzene	97		96		70-130	1		20
tert-Butylbenzene	96		94		70-130	2		20
o-Chlorotoluene	97		93		70-130	4		20
p-Chlorotoluene	94		90		70-130	4		20
1,2-Dibromo-3-chloropropane	**67**	Q	72		70-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2564441
Report Date: 10/23/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01-03 Batch: WG2131185-3 WG2131185-4								
Hexachlorobutadiene	93		91		70-130	2		20
Isopropylbenzene	96		93		70-130	3		20
p-Isopropyltoluene	96		94		70-130	2		20
Naphthalene	83		80		70-130	4		20
n-Propylbenzene	96		94		70-130	2		20
1,2,3-Trichlorobenzene	88		86		70-130	2		20
1,2,4-Trichlorobenzene	87		85		70-130	2		20
1,3,5-Trimethylbenzene	96		95		70-130	1		20
1,2,4-Trimethylbenzene	97		95		70-130	2		20
Diethyl ether	90		88		70-130	2		20
Diisopropyl Ether	88		86		70-130	2		20
Ethyl-Tert-Butyl-Ether	84		84		70-130	0		20
Tertiary-Amyl Methyl Ether	79		79		70-130	0		20
1,4-Dioxane	85		85		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2564441
Report Date: 10/23/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01-03 Batch: WG2131185-3 WG2131185-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		97		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	99		100		70-130
Dibromofluoromethane	99		99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2564441
Report Date: 10/23/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03-04 Batch: WG2131807-3 WG2131807-4								
Methylene chloride	88		89		70-130	1		20
1,1-Dichloroethane	95		96		70-130	1		20
Chloroform	90		93		70-130	3		20
Carbon tetrachloride	115		118		70-130	3		20
1,2-Dichloropropane	91		93		70-130	2		20
Dibromochloromethane	115		116		70-130	1		20
1,1,2-Trichloroethane	101		101		70-130	0		20
Tetrachloroethene	129		128		70-130	1		20
Chlorobenzene	107		106		70-130	1		20
Trichlorofluoromethane	102		100		70-130	2		20
1,2-Dichloroethane	100		103		70-130	3		20
1,1,1-Trichloroethane	108		109		70-130	1		20
Bromodichloromethane	98		97		70-130	1		20
trans-1,3-Dichloropropene	108		109		70-130	1		20
cis-1,3-Dichloropropene	98		100		70-130	2		20
1,1-Dichloropropene	103		102		70-130	1		20
Bromoform	111		119		70-130	7		20
1,1,2,2-Tetrachloroethane	94		93		70-130	1		20
Benzene	94		96		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2564441
Report Date: 10/23/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03-04 Batch: WG2131807-3 WG2131807-4								
Toluene	101		102		70-130	1		20
Ethylbenzene	103		103		70-130	0		20
Chloromethane	92		92		70-130	0		20
Bromomethane	72		**69**	Q	70-130	4		20
Vinyl chloride	92		93		70-130	1		20
Chloroethane	86		85		70-130	1		20
1,1-Dichloroethene	90		87		70-130	3		20
trans-1,2-Dichloroethene	102		101		70-130	1		20
Trichloroethene	100		103		70-130	3		20
1,2-Dichlorobenzene	104		108		70-130	4		20
1,3-Dichlorobenzene	107		109		70-130	2		20
1,4-Dichlorobenzene	105		107		70-130	2		20
Methyl tert butyl ether	97		98		70-130	1		20
p/m-Xylene	106		106		70-130	0		20
o-Xylene	102		105		70-130	3		20
cis-1,2-Dichloroethene	95		96		70-130	1		20
Dibromomethane	95		96		70-130	1		20
1,2,3-Trichloropropane	95		100		70-130	5		20
Styrene	104		104		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2564441
Report Date: 10/23/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03-04 Batch: WG2131807-3 WG2131807-4								
Dichlorodifluoromethane	121		120		70-130	1		20
Acetone	112		124		70-130	10		20
Carbon disulfide	82		82		70-130	0		20
Methyl ethyl ketone	99		102		70-130	3		20
Methyl isobutyl ketone	93		95		70-130	2		20
2-Hexanone	88		91		70-130	3		20
Bromochloromethane	102		104		70-130	2		20
Tetrahydrofuran	83		90		70-130	8		20
2,2-Dichloropropane	100		100		70-130	0		20
1,2-Dibromoethane	109		109		70-130	0		20
1,3-Dichloropropane	100		101		70-130	1		20
1,1,1,2-Tetrachloroethane	116		115		70-130	1		20
Bromobenzene	107		108		70-130	1		20
n-Butylbenzene	108		109		70-130	1		20
sec-Butylbenzene	109		112		70-130	3		20
tert-Butylbenzene	106		108		70-130	2		20
o-Chlorotoluene	99		99		70-130	0		20
p-Chlorotoluene	99		100		70-130	1		20
1,2-Dibromo-3-chloropropane	95		97		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2564441
Report Date: 10/23/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03-04 Batch: WG2131807-3 WG2131807-4								
Hexachlorobutadiene	128		129		70-130	1		20
Isopropylbenzene	101		106		70-130	5		20
p-Isopropyltoluene	108		109		70-130	1		20
Naphthalene	93		96		70-130	3		20
n-Propylbenzene	106		105		70-130	1		20
1,2,3-Trichlorobenzene	109		108		70-130	1		20
1,2,4-Trichlorobenzene	111		112		70-130	1		20
1,3,5-Trimethylbenzene	105		107		70-130	2		20
1,2,4-Trimethylbenzene	102		104		70-130	2		20
Diethyl ether	85		83		70-130	2		20
Diisopropyl Ether	106		107		70-130	1		20
Ethyl-Tert-Butyl-Ether	93		95		70-130	2		20
Tertiary-Amyl Methyl Ether	92		94		70-130	2		20
1,4-Dioxane	89		94		70-130	5		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2564441
Report Date: 10/23/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03-04 Batch: WG2131807-3 WG2131807-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		100		70-130
Toluene-d8	103		103		70-130
4-Bromofluorobenzene	95		89		70-130
Dibromofluoromethane	99		97		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2564441
Report Date: 10/23/25

SAMPLE RESULTS

Lab ID: L2564441-01
Client ID: 045163-MW403-(8-9')
Sample Location: SOMERVILLE, MASSACHUSETTS

Date Collected: 10/09/25 08:30
Date Received: 10/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.0		%	0.100	NA	1	-	10/11/25 11:52	121,2540G	ROI

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2564441
Report Date: 10/23/25

SAMPLE RESULTS

Lab ID: L2564441-02
Client ID: 045163-MW403-(13-14')
Sample Location: SOMERVILLE, MASSACHUSETTS

Date Collected: 10/09/25 09:15
Date Received: 10/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.1		%	0.100	NA	1	-	10/11/25 11:52	121,2540G	ROI

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2564441
Report Date: 10/23/25

SAMPLE RESULTS

Lab ID: L2564441-03
Client ID: 045163-MW403-(16-17')
Sample Location: SOMERVILLE, MASSACHUSETTS
Sample Depth:
Matrix: Soil
Date Collected: 10/09/25 09:50
Date Received: 10/10/25
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.2		%	0.100	NA	1	-	10/11/25 11:52	121,2540G	ROI

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2564441
Report Date: 10/23/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2564441-01A	Vial MeOH preserved	NA	NA			Y	Absent		MCP-8260HLW-21(14)
L2564441-01B	Vial water preserved	NA	NA			Y	Absent	10-OCT-25 23:03	MCP-8260HLW-21(14)
L2564441-01C	Vial water preserved	NA	NA			Y	Absent	10-OCT-25 23:03	MCP-8260HLW-21(14)
L2564441-01D	Plastic 2oz unpreserved for TS	NA	NA			Y	Absent		TS(7)
L2564441-02A	Vial MeOH preserved	NA	NA			Y	Absent		MCP-8260HLW-21(14)
L2564441-02B	Vial water preserved	NA	NA			Y	Absent	10-OCT-25 23:03	MCP-8260HLW-21(14)
L2564441-02C	Vial water preserved	NA	NA			Y	Absent	10-OCT-25 23:03	MCP-8260HLW-21(14)
L2564441-02D	Plastic 2oz unpreserved for TS	NA	NA			Y	Absent		TS(7)
L2564441-03A	Vial MeOH preserved	NA	NA			Y	Absent		MCP-8260HLW-21(14)
L2564441-03B	Vial water preserved	NA	NA			Y	Absent	10-OCT-25 23:03	MCP-8260HLW-21(14)
L2564441-03C	Vial water preserved	NA	NA			Y	Absent	10-OCT-25 23:03	MCP-8260HLW-21(14)
L2564441-03D	Plastic 2oz unpreserved for TS	NA	NA			Y	Absent		TS(7)
L2564441-04A	Vial MeOH preserved	NA	NA			Y	Absent		MCP-8260HLW-21(14)
L2564441-04B	Vial water preserved	NA	NA			Y	Absent	10-OCT-25 23:03	MCP-8260HLW-21(14)

*Values in parentheses indicate holding time in days

Project Name:	50 TUFTS STREET	**Lab Number:**	L2564441
Project Number:	045163	**Report Date:**	10/23/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	50 TUFTS STREET	**Lab Number:**	L2564441
Project Number:	045163	**Report Date:**	10/23/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	50 TUFTS STREET	**Lab Number:**	L2564441
Project Number:	045163	**Report Date:**	10/23/25

Data Qualifiers

ND	- Not detected at the reporting limit (RL) for the sample.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
S	- Analytical results are from modified screening analysis.
V	- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
Z	- The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2564441
Report Date: 10/23/25

REFERENCES

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

141 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA and IIB, November 2021.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY kY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
MA M-MA00030, CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

Chain-of-Custody Record

Laboratory: PACE

Laboratory Job # (Lab use only) L2564411

GEI Consultants
400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000

Project Information

Project Name: 50 Tufts St

Project Location: Somerville, MA

Project Number: 045163

Project Manager: Chris Coner

Page 1 of 1

Send Report to: labdata@geiconsultants.com
cconer@geiconsultants.com
igladstone@geiconsultants.com

MCP PRESUMPTIVE CERTAINTY AND MCP ANALYTICAL METHODS REQUIRED: YES (NO)

STATE AND FEDERAL REGULATORY REQUIREMENTS/REPORT LIMITS

State/Federal Program: (MA) 401WQC Other _____ NH RI CT NY ME

MA MCP Criteria are Method 1 S-1 and GW-2/GW-3. Circle if GW-1 is required.

Sample Handling: Samples Field Filtered YES NO (NA)

Sampled Shipped With Ice (YES) NO

Lab Sample Number	GEI Sample ID	Collection Date	Collection Time	Matrix	No. of Bottles	Sampler(s) Initials	Preservative: DI Meoh	Preservative: NH	VOC Highly	Total SOLIDS	Sample Specific Remarks
L2564411-01	045163-MW403-(8-9')	10/9/25	0830	SO	4	CMG			X	X	
-02	045163-MW403-(13-14')	10/9/25	0915	SO	4	CMG			X	X	
-03	045163-MW403-(16-17')	10/9/25	0950	SO	4	CMG			X	X	
-04	TripBlank	9/24/25	1200	-	2	PC			X		

Relinquished by: (signature)	Date	Time	Received by: (signature)
1. CMG	10/9/25	1600	1. GEI Sample Fridge
2. GEI Sample Fridge	10/10/25	14:22	2.
3.	10/10/25	14:22	3. Rob Maiuto
4. Rob Maiuto	10/10/25	1845	4.
5.			5.

Turnaround Time (Business days):

Normal X 4-Day ____ 3-Day ____ 2-Day ____ 1-Day ____ Other ____

Before submitting rush turnaround samples, you **must** notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

Sample Matrix Abbreviations: SO = Soil GW = Groundwater SW = Surface Water SD = Sediment CO = Concrete PC = Paint Chip CLK = Caulk

Method Blank Summary
Form 4
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2564441
Project Name	: 50 TUFTS STREET	**Project Number**	: 045163
Lab Sample ID	: WG2131185-5	**Lab File ID**	: V29251021N05
Instrument ID	: VOA129		
Matrix	: SOIL	**Analysis Date**	: 10/21/25 17:53

Client Sample No.	Lab Sample ID	Analysis Date
WG2131185-3LCS	WG2131185-3	10/21/25 16:29
WG2131185-4LCSD	WG2131185-4	10/21/25 17:11
045163-MW403-(8-9')	L2564441-01	10/21/25 22:02
045163-MW403-(13-14')	L2564441-02	10/21/25 22:23
045163-MW403-(16-17')	L2564441-03D	10/21/25 22:44

Method Blank Summary
Form 4
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2564441
Project Name	: 50 TUFTS STREET	**Project Number**	: 045163
Lab Sample ID	: WG2131807-5	**Lab File ID**	: V10251022A05
Instrument ID	: VOA110		
Matrix	: SOIL	**Analysis Date**	: 10/22/25 09:08

Client Sample No.	Lab Sample ID	Analysis Date
WG2131807-3LCS	WG2131807-3	10/22/25 07:20
WG2131807-4LCSD	WG2131807-4	10/22/25 07:47
TRIP BLANK	L2564441-04	10/22/25 12:20
045163-MW403-(16-17')	L2564441-03	10/22/25 12:47

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		**Lab Number**	: L2564441	
Project Name	: 50 TUFTS STREET		**Project Number**	: 045163	
Instrument ID	: VOA129		**Calibration Date**	: 10/21/25 16:29	
Lab File ID	: V29251021N01		**Init. Calib. Date(s)**	: 10/16/25	10/16/25
Sample No	: WG2131185-2		**Init. Calib. Times**	: 11:33	14:20
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	94	0
Dichlorodifluoromethane	0.256	0.236	-	7.8	20	85	0
Chloromethane	0.438	0.392	-	10.5	20	88	0
Vinyl chloride	0.336	0.301	-	10.4	20	86	0
Bromomethane	0.205	0.168	-	18	20	89	0
Chloroethane	0.186	0.177	-	4.8	20	90	0
Trichlorofluoromethane	0.318	0.295	-	7.2	20	84	0
Ethyl ether	0.124	0.112	-	9.7	20	90	0
1,1-Dichloroethene	0.204	0.187	-	8.3	20	88	0
Carbon disulfide	0.72	0.609	-	15.4	20	81	0
Freon-113	0.204	0.182	-	10.8	20	82	0
Acrolein	0.04	0.026	-	35*	20	67	0
Methylene chloride	0.256	0.217	-	15.2	20	89	0
Acetone	40	37.522	-	6.2	20	89	0
trans-1,2-Dichloroethene	0.232	0.213	-	8.2	20	89	0
Methyl acetate	0.171	0.125	-	26.9*	20	75	0
Methyl tert-butyl ether	0.618	0.517	-	16.3	20	82	0
tert-Butyl alcohol	0.029	0.019	-	34.5*	20	69	0
Diisopropyl ether	1.108	0.972	-	12.3	20	87	0
1,1-Dichloroethane	0.489	0.437	-	10.6	20	88	0
Halothane	0.18	0.159	-	11.7	20	84	0
Acrylonitrile	0.079	0.059	-	25.3*	20	76	0
Ethyl tert-butyl ether	0.885	0.746	-	15.7	20	82	0
Vinyl acetate	0.542	0.386	-	28.8*	20	70	0
cis-1,2-Dichloroethene	0.263	0.236	-	10.3	20	89	0
2,2-Dichloropropane	0.339	0.294	-	13.3	20	83	0
Bromochloromethane	0.122	0.107	-	12.3	20	87	0
Cyclohexane	0.488	0.437	-	10.5	20	77	0
Chloroform	0.42	0.368	-	12.4	20	86	0
Ethyl acetate	0.246	0.186	-	24.4*	20	75	0
Carbon tetrachloride	0.298	0.259	-	13.1	20	79	0
Tetrahydrofuran	0.072	0.067	-	6.9	20	90	0
Dibromofluoromethane	0.238	0.236	-	0.8	20	93	0
1,1,1-Trichloroethane	0.34	0.307	-	9.7	20	84	0
2-Butanone	0.117	0.09	-	23.1*	20	81	0
1,1-Dichloropropene	0.299	0.26	-	13	20	83	0
Benzene	0.94	0.857	-	8.8	20	88	0
tert-Amyl methyl ether	0.646	0.509	-	21.2*	20	79	0
1,2-Dichloroethane-d4	0.25	0.235	-	6	20	88	0
1,2-Dichloroethane	0.31	0.262	-	15.5	20	83	0
Methyl cyclohexane	0.384	0.34	-	11.5	20	77	0
Trichloroethene	0.259	0.238	-	8.1	20	88	0
Dibromomethane	0.128	0.107	-	16.4	20	83	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		**Lab Number**	: L2564441	
Project Name	: 50 TUFTS STREET		**Project Number**	: 045163	
Instrument ID	: VOA129		**Calibration Date**	: 10/21/25 16:29	
Lab File ID	: V29251021N01		**Init. Calib. Date(s)**	: 10/16/25	10/16/25
Sample No	: WG2131185-2		**Init. Calib. Times**	: 11:33	14:20
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.287	0.251	-	12.5	20	86	0
2-Chloroethyl vinyl ether	0.138	0.098	-	29*	20	72	0
Bromodichloromethane	0.309	0.257*	-	16.8	20	80	0
1,4-Dioxane	0.00166	0.00141*	-	15.1	20	82	0
cis-1,3-Dichloropropene	0.37	0.313	-	15.4	20	82	0
Chlorobenzene-d5	1	1	-	0	20	93	0
Toluene-d8	1.321	1.316	-	0.4	20	92	0
Toluene	0.815	0.741	-	9.1	20	87	0
4-Methyl-2-pentanone	0.125	0.086	-	31.2*	20	71	0
Tetrachloroethene	0.346	0.326	-	5.8	20	85	0
trans-1,3-Dichloropropene	0.424	0.338	-	20.3*	20	78	0
Ethyl methacrylate	0.355	0.268	-	24.5*	20	73	0
1,1,2-Trichloroethane	0.217	0.18*	-	17.1	20	82	0
Chlorodibromomethane	0.306	0.245	-	19.9	20	77	0
1,3-Dichloropropane	0.437	0.367	-	16	20	83	0
1,2-Dibromoethane	0.245	0.202	-	17.6	20	80	0
2-Hexanone	0.251	0.165	-	34.3*	20	71	0
Chlorobenzene	0.94	0.83	-	11.7	20	87	0
Ethylbenzene	1.53	1.376	-	10.1	20	85	0
1,1,1,2-Tetrachloroethane	0.327	0.288	-	11.9	20	84	0
p/m Xylene	0.587	0.545	-	7.2	20	87	0
o Xylene	0.572	0.536	-	6.3	20	87	0
Styrene	0.952	0.887	-	6.8	20	86	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	89	0
Bromoform	0.36	0.268	-	25.6*	20	70	0
Isopropylbenzene	2.83	2.711	-	4.2	20	85	0
4-Bromofluorobenzene	0.876	0.871	-	0.6	20	89	0
Bromobenzene	0.761	0.689	-	9.5	20	86	0
n-Propylbenzene	3.304	3.188	-	3.5	20	85	0
1,4-Dichlorobutane	1.081	0.924	-	14.5	20	81	0
1,1,2,2-Tetrachloroethane	0.583	0.464	-	20.4*	20	76	0
4-Ethyltoluene	2.801	2.675	-	4.5	20	85	0
2-Chlorotoluene	2.013	1.953	-	3	20	90	0
1,3,5-Trimethylbenzene	2.398	2.302	-	4	20	85	0
1,2,3-Trichloropropane	0.47	0.375	-	20.2*	20	76	0
trans-1,4-Dichloro-2-buten	0.206	0.158	-	23.3*	20	74	0
4-Chlorotoluene	2.129	1.997	-	6.2	20	87	0
tert-Butylbenzene	2.097	2.013	-	4	20	84	0
1,2,4-Trimethylbenzene	2.367	2.3	-	2.8	20	87	0
sec-Butylbenzene	3.056	2.953	-	3.4	20	84	0
p-Isopropyltoluene	2.681	2.578	-	3.8	20	84	0
1,3-Dichlorobenzene	1.489	1.373	-	7.8	20	88	0
1,4-Dichlorobenzene	1.491	1.365	-	8.5	20	88	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		**Lab Number**	: L2564441	
Project Name	: 50 TUFTS STREET		**Project Number**	: 045163	
Instrument ID	: VOA129		**Calibration Date**	: 10/21/25 16:29	
Lab File ID	: V29251021N01		**Init. Calib. Date(s)**	: 10/16/25	10/16/25
Sample No	: WG2131185-2		**Init. Calib. Times**	: 11:33	14:20
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.612	1.562	-	3.1	20	85	0
n-Butylbenzene	2.33	2.22	-	4.7	20	83	0
1,2-Dichlorobenzene	1.371	1.24	-	9.6	20	85	0
1,2,4,5-Tetramethylbenzene	2.501	2.36	-	5.6	20	83	0
1,2-Dibromo-3-chloropropan	0.098	0.066	-	32.7*	20	65	0
1,3,5-Trichlorobenzene	1.11	1.03	-	7.2	20	86	0
Hexachlorobutadiene	0.523	0.484	-	7.5	20	82	0
1,2,4-Trichlorobenzene	0.995	0.869	-	12.7	20	82	0
Naphthalene	2.049	1.692	-	17.4	20	79	0
1,2,3-Trichlorobenzene	0.908	0.798	-	12.1	20	83	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		**Lab Number**	: L2564441	
Project Name	: 50 TUFTS STREET		**Project Number**	: 045163	
Instrument ID	: VOA110		**Calibration Date**	: 10/22/25 07:20	
Lab File ID	: V10251022A01		**Init. Calib. Date(s)**	: 09/15/25	09/15/25
Sample No	: WG2131807-2		**Init. Calib. Times**	: 14:50	19:48
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	156	0
Dichlorodifluoromethane	0.233	0.282	-	-21*	20	169	0
Chloromethane	0.269	0.246	-	8.6	20	151	0
Vinyl chloride	0.307	0.284	-	7.5	20	136	0
Bromomethane	0.283	0.203	-	28.3*	20	119	0
Chloroethane	0.229	0.197	-	14	20	135	0
Trichlorofluoromethane	0.424	0.432	-	-1.9	20	143	0
Ethyl ether	0.198	0.167	-	15.7	20	135	0
1,1-Dichloroethene	0.259	0.233	-	10	20	136	0
Carbon disulfide	0.958	0.789	-	17.6	20	127	0
Freon-113	0.245	0.249	-	-1.6	20	141	0
Acrolein	40	28.321	-	29.2*	20	120	0
Methylene chloride	0.276	0.244	-	11.6	20	155	0
Acetone	40	44.9	-	-12.2	20	187	0
trans-1,2-Dichloroethene	0.246	0.251	-	-2	20	157	0
Methyl acetate	0.164	0.165	-	-0.6	20	161	0
Methyl tert-butyl ether	0.76	0.736	-	3.2	20	151	0
tert-Butyl alcohol	0.043	0.03	-	30.2*	20	121	0
Diisopropyl ether	0.676	0.719	-	-6.4	20	167	0
1,1-Dichloroethane	0.439	0.418	-	4.8	20	149	0
Halothane	0.177	0.193	-	-9	20	165	0
Acrylonitrile	0.085	0.075	-	11.8	20	140	0
Ethyl tert-butyl ether	0.713	0.664	-	6.9	20	145	0
Vinyl acetate	0.481	0.502	-	-4.4	20	170	0
cis-1,2-Dichloroethene	0.272	0.259	-	4.8	20	149	0
2,2-Dichloropropane	0.37	0.371	-	-0.3	20	158	0
Bromochloromethane	0.131	0.134	-	-2.3	20	165	0
Cyclohexane	0.344	0.38	-	-10.5	20	152	0
Chloroform	0.452	0.409	-	9.5	20	153	0
Ethyl acetate	0.236	0.23	-	2.5	20	157	0
Carbon tetrachloride	0.321	0.37	-	-15.3	20	168	0
Tetrahydrofuran	0.091	0.075	-	17.6	20	137	0
Dibromofluoromethane	0.269	0.265	-	1.5	20	154	0
1,1,1-Trichloroethane	0.351	0.38	-	-8.3	20	159	0
2-Butanone	0.098	0.097	-	1	20	153	0
1,1-Dichloropropene	0.296	0.304	-	-2.7	20	151	0
Benzene	0.928	0.87	-	6.3	20	144	0
tert-Amyl methyl ether	0.704	0.646	-	8.2	20	142	0
1,2-Dichloroethane-d4	0.275	0.277	-	-0.7	20	160	0
1,2-Dichloroethane	0.311	0.313	-	-0.6	20	160	0
Methyl cyclohexane	40	36.997	-	7.5	20	150	0
Trichloroethene	0.247	0.248	-	-0.4	20	155	0
Dibromomethane	0.156	0.148	-	5.1	20	153	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		**Lab Number**	: L2564441	
Project Name	: 50 TUFTS STREET		**Project Number**	: 045163	
Instrument ID	: VOA110		**Calibration Date**	: 10/22/25 07:20	
Lab File ID	: V10251022A01		**Init. Calib. Date(s)**	: 09/15/25	09/15/25
Sample No	: WG2131807-2		**Init. Calib. Times**	: 14:50	19:48
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.242	0.22	-	9.1	20	142	0
Bromodichloromethane	0.335	0.329	-	1.8	20	152	0
1,4-Dioxane	0.00287	0.00256*	-	10.8	20	131	0
cis-1,3-Dichloropropene	0.381	0.374	-	1.8	20	143	0
Chlorobenzene-d5	1	1	-	0	20	146	0
Toluene-d8	1.234	1.27	-	-2.9	20	146	0
Toluene	0.753	0.764	-	-1.5	20	145	0
4-Methyl-2-pentanone	0.112	0.104	-	7.1	20	124	0
Tetrachloroethene	0.297	0.382	-	-28.6*	20	176	0
trans-1,3-Dichloropropene	0.435	0.47	-	-8	20	151	0
Ethyl methacrylate	0.38	0.363	-	4.5	20	131	0
1,1,2-Trichloroethane	0.219	0.22	-	-0.5	20	142	0
Chlorodibromomethane	0.32	0.37	-	-15.6	20	162	0
1,3-Dichloropropane	0.458	0.456	-	0.4	20	143	0
1,2-Dibromoethane	0.269	0.292	-	-8.6	20	149	0
2-Hexanone	0.22	0.193	-	12.3	20	135	0
Chlorobenzene	0.864	0.923	-	-6.8	20	150	0
Ethylbenzene	1.443	1.481	-	-2.6	20	146	0
1,1,1,2-Tetrachloroethane	0.312	0.361	-	-15.7	20	158	0
p/m Xylene	0.578	0.612	-	-5.9	20	148	0
o Xylene	0.575	0.588	-	-2.3	20	142	0
Styrene	0.969	1.008	-	-4	20	142	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	151	0
Bromoform	0.398	0.441	-	-10.8	20	162	0
Isopropylbenzene	2.501	2.531	-	-1.2	20	147	0
4-Bromofluorobenzene	0.839	0.796	-	5.1	20	147	0
Bromobenzene	0.675	0.724	-	-7.3	20	160	0
n-Propylbenzene	2.89	3.068	-	-6.2	20	153	0
1,4-Dichlorobutane	0.841	0.803	-	4.5	20	146	0
1,1,2,2-Tetrachloroethane	0.682	0.644	-	5.6	20	138	0
4-Ethyltoluene	2.553	2.658	-	-4.1	20	153	0
2-Chlorotoluene	1.769	1.75	-	1.1	20	146	0
1,3,5-Trimethylbenzene	2.178	2.295	-	-5.4	20	154	0
1,2,3-Trichloropropane	0.55	0.523	-	4.9	20	142	0
trans-1,4-Dichloro-2-buten	0.198	0.201	-	-1.5	20	151	0
4-Chlorotoluene	1.863	1.849	-	0.8	20	146	0
tert-Butylbenzene	1.882	1.994	-	-6	20	151	0
1,2,4-Trimethylbenzene	2.149	2.2	-	-2.4	20	147	0
sec-Butylbenzene	2.722	2.979	-	-9.4	20	153	0
p-Isopropyltoluene	2.444	2.641	-	-8.1	20	151	0
1,3-Dichlorobenzene	1.304	1.402	-	-7.5	20	156	0
1,4-Dichlorobenzene	1.352	1.416	-	-4.7	20	155	0
p-Diethylbenzene	1.477	1.556	-	-5.3	20	148	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		**Lab Number**	: L2564441	
Project Name	: 50 TUFTS STREET		**Project Number**	: 045163	
Instrument ID	: VOA110		**Calibration Date**	: 10/22/25 07:20	
Lab File ID	: V10251022A01		**Init. Calib. Date(s)**	: 09/15/25	09/15/25
Sample No	: WG2131807-2		**Init. Calib. Times**	: 14:50	19:48
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	2.061	2.227	-	-8.1	20	152	0
1,2-Dichlorobenzene	1.248	1.303	-	-4.4	20	151	0
1,2,4,5-Tetramethylbenzene	2.355	2.389	-	-1.4	20	144	0
1,2-Dibromo-3-chloropropan	0.136	0.129	-	5.1	20	139	0
1,3,5-Trichlorobenzene	0.963	1.089	-	-13.1	20	165	0
Hexachlorobutadiene	0.43	0.552	-	-28.4*	20	179	0
1,2,4-Trichlorobenzene	0.867	0.96	-	-10.7	20	161	0
Naphthalene	2.343	2.173	-	7.3	20	138	0
1,2,3-Trichlorobenzene	0.843	0.918	-	-8.9	20	161	0

*** Value outside of QC limits.**

Sample Delivery Group Summary

Pace Job Number : L2564441

Account Name : GEI Consultants
Project Number : 045163
Project Name : 50 TUFTS STREET

Received : 10-OCT-2025
Reviewer : Harmony Evans

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	2.0	

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**NA**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NO**

ANALYTICAL REPORT

Lab Number:	L2566491
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	50 TUFTS STREET
Project Number:	045163
Report Date:	11/03/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2566491
Report Date: 11/03/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2566491-01	045163-MW404-(6-7')	SOIL	SOMERVILLE, MASSACHUSETTS	10/20/25 07:45	10/21/25
L2566491-02	045163-MW404-(7-8')	SOIL	SOMERVILLE, MASSACHUSETTS	10/20/25 07:50	10/21/25
L2566491-03	045163-MW404-(10')	SOIL	SOMERVILLE, MASSACHUSETTS	10/20/25 09:30	10/21/25
L2566491-04	TRIP BLANK	SOIL	SOMERVILLE, MASSACHUSETTS	09/29/25 12:00	10/21/25

Project Name: 50 TUFTS STREET **Lab Number:** L2566491

Project Number: 045163 **Report Date:** 11/03/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E 1.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E 2.	PFAS Only: Were aqueous samples extracted without filtering?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits/lower limits of quantitation at or below all CAM reporting limits/lower limits of quantitation specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	50 TUFTS STREET	**Lab Number:**	L2566491
Project Number:	045163	**Report Date:**	11/03/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	50 TUFTS STREET	**Lab Number:**	L2566491
Project Number:	045163	**Report Date:**	11/03/25

Case Narrative (continued)

MCP Related Narratives

Volatile Organics

In reference to question G:

L2566491-01 through -04: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L2566491-01 through -04: Initial Calibration did not meet:

Lowest Calibration Standard Minimum Response Factor: 1,4-dioxane (0.0011)

Average Response Factor: 1,4-dioxane

Verification: acetone (61%)

L2566491-01 through -04: The associated continuing calibration standard is outside the acceptance criteria for several compounds; however, it is within overall method allowances. Associated results are considered to be biased high if the %D is negative and biased low if the %D is positive. A copy of the continuing calibration standard is included as an addendum to this report.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly O'Neill

Title: Technical Director/Representative Date: 11/03/25

QC OUTLIER SUMMARY REPORT

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2566491
Report Date: 11/03/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
MCP Volatile Organics by EPA 5035 High - Westborough Lab								
8260D	Batch QC	WG2135795-3	Bromomethane	LCS	146	70-130	01-03	potential high bias
8260D	Batch QC	WG2135795-3	Chloroethane	LCS	135	70-130	01-03	potential high bias
8260D	Batch QC	WG2135795-4	Bromomethane	LCSD	141	70-130	01-03	potential high bias
8260D	Batch QC	WG2135795-4	Chloroethane	LCSD	135	70-130	01-03	potential high bias
8260D	Batch QC	WG2135885-3	Bromomethane	LCS	149	70-130	04	potential high bias
8260D	Batch QC	WG2135885-3	Chloroethane	LCS	136	70-130	04	potential high bias
8260D	Batch QC	WG2135885-3	Acetone	LCS	136	70-130	04	potential high bias
8260D	Batch QC	WG2135885-4	Bromomethane	LCSD	137	70-130	04	potential high bias
8260D	Batch QC	WG2135885-4	Dichlorodifluoromethane	LCSD	69	70-130	04	potential low bias

ORGANICS

VOLATILES

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2566491
Report Date: 11/03/25

SAMPLE RESULTS

Lab ID: L2566491-01
Client ID: 045163-MW404-(6-7')
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 10/20/25 07:45
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 10/31/25 11:00
Analyst: MNF
Percent Solids: 98%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	190	--	1
1,1-Dichloroethane	ND		ug/kg	38	--	1
Chloroform	ND		ug/kg	56	--	1
Carbon tetrachloride	ND		ug/kg	38	--	1
1,2-Dichloropropane	ND		ug/kg	38	--	1
Dibromochloromethane	ND		ug/kg	38	--	1
1,1,2-Trichloroethane	ND		ug/kg	38	--	1
Tetrachloroethene	5600		ug/kg	19	--	1
Chlorobenzene	ND		ug/kg	19	--	1
Trichlorofluoromethane	ND		ug/kg	150	--	1
1,2-Dichloroethane	ND		ug/kg	38	--	1
1,1,1-Trichloroethane	ND		ug/kg	19	--	1
Bromodichloromethane	ND		ug/kg	19	--	1
trans-1,3-Dichloropropene	ND		ug/kg	38	--	1
cis-1,3-Dichloropropene	ND		ug/kg	19	--	1
1,3-Dichloropropene, Total	ND		ug/kg	19	--	1
1,1-Dichloropropene	ND		ug/kg	19	--	1
Bromoform	ND		ug/kg	150	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	19	--	1
Benzene	ND		ug/kg	19	--	1
Toluene	ND		ug/kg	38	--	1
Ethylbenzene	ND		ug/kg	38	--	1
Chloromethane	ND		ug/kg	150	--	1
Bromomethane	ND		ug/kg	75	--	1
Vinyl chloride	ND		ug/kg	38	--	1
Chloroethane	ND		ug/kg	75	--	1
1,1-Dichloroethene	ND		ug/kg	38	--	1
trans-1,2-Dichloroethene	ND		ug/kg	56	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2566491

Project Number: 045163 **Report Date:** 11/03/25

SAMPLE RESULTS

Lab ID: L2566491-01 Date Collected: 10/20/25 07:45

Client ID: 045163-MW404-(6-7') Date Received: 10/21/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	210		ug/kg	19	--	1
1,2-Dichlorobenzene	ND		ug/kg	75	--	1
1,3-Dichlorobenzene	ND		ug/kg	75	--	1
1,4-Dichlorobenzene	ND		ug/kg	75	--	1
Methyl tert butyl ether	ND		ug/kg	75	--	1
p/m-Xylene	ND		ug/kg	75	--	1
o-Xylene	ND		ug/kg	38	--	1
Xylenes, Total	ND		ug/kg	38	--	1
cis-1,2-Dichloroethene	ND		ug/kg	38	--	1
1,2-Dichloroethene, Total	ND		ug/kg	38	--	1
Dibromomethane	ND		ug/kg	75	--	1
1,2,3-Trichloropropane	ND		ug/kg	75	--	1
Styrene	ND		ug/kg	38	--	1
Dichlorodifluoromethane	ND		ug/kg	380	--	1
Acetone	ND		ug/kg	380	--	1
Carbon disulfide	ND		ug/kg	380	--	1
Methyl ethyl ketone	ND		ug/kg	380	--	1
Methyl isobutyl ketone	ND		ug/kg	380	--	1
2-Hexanone	ND		ug/kg	380	--	1
Bromochloromethane	ND		ug/kg	75	--	1
Tetrahydrofuran	ND		ug/kg	150	--	1
2,2-Dichloropropane	ND		ug/kg	75	--	1
1,2-Dibromoethane	ND		ug/kg	38	--	1
1,3-Dichloropropane	ND		ug/kg	75	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	19	--	1
Bromobenzene	ND		ug/kg	75	--	1
n-Butylbenzene	ND		ug/kg	38	--	1
sec-Butylbenzene	ND		ug/kg	38	--	1
tert-Butylbenzene	ND		ug/kg	75	--	1
o-Chlorotoluene	ND		ug/kg	75	--	1
p-Chlorotoluene	ND		ug/kg	75	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	110	--	1
Hexachlorobutadiene	ND		ug/kg	150	--	1
Isopropylbenzene	ND		ug/kg	38	--	1
p-Isopropyltoluene	ND		ug/kg	38	--	1
Naphthalene	ND		ug/kg	150	--	1
n-Propylbenzene	ND		ug/kg	38	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2566491

Project Number: 045163 **Report Date:** 11/03/25

SAMPLE RESULTS

Lab ID: L2566491-01 Date Collected: 10/20/25 07:45

Client ID: 045163-MW404-(6-7') Date Received: 10/21/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	75	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	75	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	75	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	75	--	1
Diethyl ether	ND		ug/kg	75	--	1
Diisopropyl Ether	ND		ug/kg	75	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	75	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	75	--	1
1,4-Dioxane	ND		ug/kg	3000	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	104		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2566491
Report Date: 11/03/25

SAMPLE RESULTS

Lab ID: L2566491-02
Client ID: 045163-MW404-(7-8')
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 10/20/25 07:50
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 10/31/25 11:26
Analyst: MNF
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	150	--	1
1,1-Dichloroethane	ND		ug/kg	31	--	1
Chloroform	ND		ug/kg	46	--	1
Carbon tetrachloride	ND		ug/kg	31	--	1
1,2-Dichloropropane	ND		ug/kg	31	--	1
Dibromochloromethane	ND		ug/kg	31	--	1
1,1,2-Trichloroethane	ND		ug/kg	31	--	1
Tetrachloroethene	520		ug/kg	15	--	1
Chlorobenzene	ND		ug/kg	15	--	1
Trichlorofluoromethane	ND		ug/kg	120	--	1
1,2-Dichloroethane	ND		ug/kg	31	--	1
1,1,1-Trichloroethane	ND		ug/kg	15	--	1
Bromodichloromethane	ND		ug/kg	15	--	1
trans-1,3-Dichloropropene	ND		ug/kg	31	--	1
cis-1,3-Dichloropropene	ND		ug/kg	15	--	1
1,3-Dichloropropene, Total	ND		ug/kg	15	--	1
1,1-Dichloropropene	ND		ug/kg	15	--	1
Bromoform	ND		ug/kg	120	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	15	--	1
Benzene	ND		ug/kg	15	--	1
Toluene	ND		ug/kg	31	--	1
Ethylbenzene	ND		ug/kg	31	--	1
Chloromethane	ND		ug/kg	120	--	1
Bromomethane	ND		ug/kg	61	--	1
Vinyl chloride	ND		ug/kg	31	--	1
Chloroethane	ND		ug/kg	61	--	1
1,1-Dichloroethene	ND		ug/kg	31	--	1
trans-1,2-Dichloroethene	ND		ug/kg	46	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2566491

Project Number: 045163 **Report Date:** 11/03/25

SAMPLE RESULTS

Lab ID: L2566491-02 Date Collected: 10/20/25 07:50

Client ID: 045163-MW404-(7-8') Date Received: 10/21/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	22		ug/kg	15	--	1
1,2-Dichlorobenzene	ND		ug/kg	61	--	1
1,3-Dichlorobenzene	ND		ug/kg	61	--	1
1,4-Dichlorobenzene	ND		ug/kg	61	--	1
Methyl tert butyl ether	ND		ug/kg	61	--	1
p/m-Xylene	ND		ug/kg	61	--	1
o-Xylene	ND		ug/kg	31	--	1
Xylenes, Total	ND		ug/kg	31	--	1
cis-1,2-Dichloroethene	ND		ug/kg	31	--	1
1,2-Dichloroethene, Total	ND		ug/kg	31	--	1
Dibromomethane	ND		ug/kg	61	--	1
1,2,3-Trichloropropane	ND		ug/kg	61	--	1
Styrene	ND		ug/kg	31	--	1
Dichlorodifluoromethane	ND		ug/kg	310	--	1
Acetone	ND		ug/kg	310	--	1
Carbon disulfide	ND		ug/kg	310	--	1
Methyl ethyl ketone	ND		ug/kg	310	--	1
Methyl isobutyl ketone	ND		ug/kg	310	--	1
2-Hexanone	ND		ug/kg	310	--	1
Bromochloromethane	ND		ug/kg	61	--	1
Tetrahydrofuran	ND		ug/kg	120	--	1
2,2-Dichloropropane	ND		ug/kg	61	--	1
1,2-Dibromoethane	ND		ug/kg	31	--	1
1,3-Dichloropropane	ND		ug/kg	61	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	15	--	1
Bromobenzene	ND		ug/kg	61	--	1
n-Butylbenzene	ND		ug/kg	31	--	1
sec-Butylbenzene	ND		ug/kg	31	--	1
tert-Butylbenzene	ND		ug/kg	61	--	1
o-Chlorotoluene	ND		ug/kg	61	--	1
p-Chlorotoluene	ND		ug/kg	61	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	92	--	1
Hexachlorobutadiene	ND		ug/kg	120	--	1
Isopropylbenzene	ND		ug/kg	31	--	1
p-Isopropyltoluene	ND		ug/kg	31	--	1
Naphthalene	ND		ug/kg	120	--	1
n-Propylbenzene	ND		ug/kg	31	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2566491

Project Number: 045163 **Report Date:** 11/03/25

SAMPLE RESULTS

Lab ID: L2566491-02 Date Collected: 10/20/25 07:50

Client ID: 045163-MW404-(7-8') Date Received: 10/21/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	61	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	61	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	61	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	61	--	1
Diethyl ether	ND		ug/kg	61	--	1
Diisopropyl Ether	ND		ug/kg	61	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	61	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	61	--	1
1,4-Dioxane	ND		ug/kg	2400	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	106		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2566491
Report Date: 11/03/25

SAMPLE RESULTS

Lab ID: L2566491-03
Client ID: 045163-MW404-(10')
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 10/20/25 09:30
Date Received: 10/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 10/31/25 11:53
Analyst: MNF
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	220	--	1
1,1-Dichloroethane	ND		ug/kg	43	--	1
Chloroform	ND		ug/kg	64	--	1
Carbon tetrachloride	ND		ug/kg	43	--	1
1,2-Dichloropropane	ND		ug/kg	43	--	1
Dibromochloromethane	ND		ug/kg	43	--	1
1,1,2-Trichloroethane	ND		ug/kg	43	--	1
Tetrachloroethene	4600		ug/kg	22	--	1
Chlorobenzene	ND		ug/kg	22	--	1
Trichlorofluoromethane	ND		ug/kg	170	--	1
1,2-Dichloroethane	ND		ug/kg	43	--	1
1,1,1-Trichloroethane	ND		ug/kg	22	--	1
Bromodichloromethane	ND		ug/kg	22	--	1
trans-1,3-Dichloropropene	ND		ug/kg	43	--	1
cis-1,3-Dichloropropene	ND		ug/kg	22	--	1
1,3-Dichloropropene, Total	ND		ug/kg	22	--	1
1,1-Dichloropropene	ND		ug/kg	22	--	1
Bromoform	ND		ug/kg	170	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	22	--	1
Benzene	ND		ug/kg	22	--	1
Toluene	ND		ug/kg	43	--	1
Ethylbenzene	ND		ug/kg	43	--	1
Chloromethane	ND		ug/kg	170	--	1
Bromomethane	ND		ug/kg	86	--	1
Vinyl chloride	ND		ug/kg	43	--	1
Chloroethane	ND		ug/kg	86	--	1
1,1-Dichloroethene	ND		ug/kg	43	--	1
trans-1,2-Dichloroethene	ND		ug/kg	64	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2566491

Project Number: 045163 **Report Date:** 11/03/25

SAMPLE RESULTS

Lab ID: L2566491-03 Date Collected: 10/20/25 09:30

Client ID: 045163-MW404-(10') Date Received: 10/21/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	160		ug/kg	22	--	1
1,2-Dichlorobenzene	ND		ug/kg	86	--	1
1,3-Dichlorobenzene	ND		ug/kg	86	--	1
1,4-Dichlorobenzene	ND		ug/kg	86	--	1
Methyl tert butyl ether	ND		ug/kg	86	--	1
p/m-Xylene	ND		ug/kg	86	--	1
o-Xylene	ND		ug/kg	43	--	1
Xylenes, Total	ND		ug/kg	43	--	1
cis-1,2-Dichloroethene	ND		ug/kg	43	--	1
1,2-Dichloroethene, Total	ND		ug/kg	43	--	1
Dibromomethane	ND		ug/kg	86	--	1
1,2,3-Trichloropropane	ND		ug/kg	86	--	1
Styrene	ND		ug/kg	43	--	1
Dichlorodifluoromethane	ND		ug/kg	430	--	1
Acetone	ND		ug/kg	430	--	1
Carbon disulfide	ND		ug/kg	430	--	1
Methyl ethyl ketone	ND		ug/kg	430	--	1
Methyl isobutyl ketone	ND		ug/kg	430	--	1
2-Hexanone	ND		ug/kg	430	--	1
Bromochloromethane	ND		ug/kg	86	--	1
Tetrahydrofuran	ND		ug/kg	170	--	1
2,2-Dichloropropane	ND		ug/kg	86	--	1
1,2-Dibromoethane	ND		ug/kg	43	--	1
1,3-Dichloropropane	ND		ug/kg	86	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	22	--	1
Bromobenzene	ND		ug/kg	86	--	1
n-Butylbenzene	ND		ug/kg	43	--	1
sec-Butylbenzene	ND		ug/kg	43	--	1
tert-Butylbenzene	ND		ug/kg	86	--	1
o-Chlorotoluene	ND		ug/kg	86	--	1
p-Chlorotoluene	ND		ug/kg	86	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	130	--	1
Hexachlorobutadiene	ND		ug/kg	170	--	1
Isopropylbenzene	ND		ug/kg	43	--	1
p-Isopropyltoluene	ND		ug/kg	43	--	1
Naphthalene	ND		ug/kg	170	--	1
n-Propylbenzene	ND		ug/kg	43	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2566491

Project Number: 045163 **Report Date:** 11/03/25

SAMPLE RESULTS

Lab ID: L2566491-03 Date Collected: 10/20/25 09:30

Client ID: 045163-MW404-(10') Date Received: 10/21/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	86	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	86	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	86	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	86	--	1
Diethyl ether	ND		ug/kg	86	--	1
Diisopropyl Ether	ND		ug/kg	86	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	86	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	86	--	1
1,4-Dioxane	ND		ug/kg	3400	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	84		70-130
Dibromofluoromethane	107		70-130

Project Name: 50 TUFTS STREET **Lab Number:** L2566491

Project Number: 045163 **Report Date:** 11/03/25

SAMPLE RESULTS

Lab ID: L2566491-04 Date Collected: 09/29/25 12:00

Client ID: TRIP BLANK Date Received: 10/21/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 141,8260D

Analytical Date: 11/01/25 14:03

Analyst: MNF

Percent Solids: Results Reported on an "AS RECEIVED" basis

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	250	--	1
1,1-Dichloroethane	ND		ug/kg	50	--	1
Chloroform	ND		ug/kg	75	--	1
Carbon tetrachloride	ND		ug/kg	50	--	1
1,2-Dichloropropane	ND		ug/kg	50	--	1
Dibromochloromethane	ND		ug/kg	50	--	1
1,1,2-Trichloroethane	ND		ug/kg	50	--	1
Tetrachloroethene	ND		ug/kg	25	--	1
Chlorobenzene	ND		ug/kg	25	--	1
Trichlorofluoromethane	ND		ug/kg	200	--	1
1,2-Dichloroethane	ND		ug/kg	50	--	1
1,1,1-Trichloroethane	ND		ug/kg	25	--	1
Bromodichloromethane	ND		ug/kg	25	--	1
trans-1,3-Dichloropropene	ND		ug/kg	50	--	1
cis-1,3-Dichloropropene	ND		ug/kg	25	--	1
1,3-Dichloropropene, Total	ND		ug/kg	25	--	1
1,1-Dichloropropene	ND		ug/kg	25	--	1
Bromoform	ND		ug/kg	200	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--	1
Benzene	ND		ug/kg	25	--	1
Toluene	ND		ug/kg	50	--	1
Ethylbenzene	ND		ug/kg	50	--	1
Chloromethane	ND		ug/kg	200	--	1
Bromomethane	ND		ug/kg	100	--	1
Vinyl chloride	ND		ug/kg	50	--	1
Chloroethane	ND		ug/kg	100	--	1
1,1-Dichloroethene	ND		ug/kg	50	--	1
trans-1,2-Dichloroethene	ND		ug/kg	75	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2566491

Project Number: 045163 **Report Date:** 11/03/25

SAMPLE RESULTS

Lab ID: L2566491-04 Date Collected: 09/29/25 12:00

Client ID: TRIP BLANK Date Received: 10/21/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	25	--	1
1,2-Dichlorobenzene	ND		ug/kg	100	--	1
1,3-Dichlorobenzene	ND		ug/kg	100	--	1
1,4-Dichlorobenzene	ND		ug/kg	100	--	1
Methyl tert butyl ether	ND		ug/kg	100	--	1
p/m-Xylene	ND		ug/kg	100	--	1
o-Xylene	ND		ug/kg	50	--	1
Xylenes, Total	ND		ug/kg	50	--	1
cis-1,2-Dichloroethene	ND		ug/kg	50	--	1
1,2-Dichloroethene, Total	ND		ug/kg	50	--	1
Dibromomethane	ND		ug/kg	100	--	1
1,2,3-Trichloropropane	ND		ug/kg	100	--	1
Styrene	ND		ug/kg	50	--	1
Dichlorodifluoromethane	ND		ug/kg	500	--	1
Acetone	ND		ug/kg	500	--	1
Carbon disulfide	ND		ug/kg	500	--	1
Methyl ethyl ketone	ND		ug/kg	500	--	1
Methyl isobutyl ketone	ND		ug/kg	500	--	1
2-Hexanone	ND		ug/kg	500	--	1
Bromochloromethane	ND		ug/kg	100	--	1
Tetrahydrofuran	ND		ug/kg	200	--	1
2,2-Dichloropropane	ND		ug/kg	100	--	1
1,2-Dibromoethane	ND		ug/kg	50	--	1
1,3-Dichloropropane	ND		ug/kg	100	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--	1
Bromobenzene	ND		ug/kg	100	--	1
n-Butylbenzene	ND		ug/kg	50	--	1
sec-Butylbenzene	ND		ug/kg	50	--	1
tert-Butylbenzene	ND		ug/kg	100	--	1
o-Chlorotoluene	ND		ug/kg	100	--	1
p-Chlorotoluene	ND		ug/kg	100	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--	1
Hexachlorobutadiene	ND		ug/kg	200	--	1
Isopropylbenzene	ND		ug/kg	50	--	1
p-Isopropyltoluene	ND		ug/kg	50	--	1
Naphthalene	ND		ug/kg	200	--	1
n-Propylbenzene	ND		ug/kg	50	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2566491

Project Number: 045163 **Report Date:** 11/03/25

SAMPLE RESULTS

Lab ID: L2566491-04 Date Collected: 09/29/25 12:00

Client ID: TRIP BLANK Date Received: 10/21/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	100	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	100	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	100	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	100	--	1
Diethyl ether	ND		ug/kg	100	--	1
Diisopropyl Ether	ND		ug/kg	100	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--	1
1,4-Dioxane	ND		ug/kg	4000	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	108		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2566491
Report Date: 11/03/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 10/31/25 08:22
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01-03 Batch: WG2135795-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2566491
Report Date: 11/03/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 10/31/25 08:22
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01-03 Batch: WG2135795-5					
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	100	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2566491
Report Date: 11/03/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 10/31/25 08:22
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01-03 Batch: WG2135795-5					
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2566491
Report Date: 11/03/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 10/31/25 08:22
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01-03 Batch: WG2135795-5					
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	108		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2566491
Report Date: 11/03/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/01/25 11:43
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04 Batch: WG2135885-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2566491
Report Date: 11/03/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/01/25 11:43
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04 Batch: WG2135885-5					
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	100	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2566491
Report Date: 11/03/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/01/25 11:43
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04 Batch: WG2135885-5					
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2566491
Report Date: 11/03/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/01/25 11:43
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04 Batch: WG2135885-5					
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	108		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2566491
Report Date: 11/03/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01-03 Batch: WG2135795-3 WG2135795-4								
Methylene chloride	91		92		70-130	1		20
1,1-Dichloroethane	95		96		70-130	1		20
Chloroform	96		101		70-130	5		20
Carbon tetrachloride	100		108		70-130	8		20
1,2-Dichloropropane	91		96		70-130	5		20
Dibromochloromethane	102		103		70-130	1		20
1,1,2-Trichloroethane	95		95		70-130	0		20
Tetrachloroethene	110		115		70-130	4		20
Chlorobenzene	96		102		70-130	6		20
Trichlorofluoromethane	99		100		70-130	1		20
1,2-Dichloroethane	94		100		70-130	6		20
1,1,1-Trichloroethane	99		104		70-130	5		20
Bromodichloromethane	92		97		70-130	5		20
trans-1,3-Dichloropropene	101		101		70-130	0		20
cis-1,3-Dichloropropene	97		103		70-130	6		20
1,1-Dichloropropene	102		109		70-130	7		20
Bromoform	103		104		70-130	1		20
1,1,2,2-Tetrachloroethane	91		92		70-130	1		20
Benzene	95		100		70-130	5		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2566491
Report Date: 11/03/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01-03 Batch: WG2135795-3 WG2135795-4								
Toluene	88		92		70-130	4		20
Ethylbenzene	90		98		70-130	9		20
Chloromethane	85		85		70-130	0		20
Bromomethane	**146**	Q	**141**	Q	70-130	3		20
Vinyl chloride	94		93		70-130	1		20
Chloroethane	**135**	Q	**135**	Q	70-130	0		20
1,1-Dichloroethene	102		100		70-130	2		20
trans-1,2-Dichloroethene	100		103		70-130	3		20
Trichloroethene	95		101		70-130	6		20
1,2-Dichlorobenzene	97		102		70-130	5		20
1,3-Dichlorobenzene	100		104		70-130	4		20
1,4-Dichlorobenzene	96		101		70-130	5		20
Methyl tert butyl ether	106		104		70-130	2		20
p/m-Xylene	92		100		70-130	8		20
o-Xylene	90		97		70-130	7		20
cis-1,2-Dichloroethene	100		103		70-130	3		20
Dibromomethane	99		104		70-130	5		20
1,2,3-Trichloropropane	94		94		70-130	0		20
Styrene	88		96		70-130	9		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2566491
Report Date: 11/03/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01-03 Batch: WG2135795-3 WG2135795-4								
Dichlorodifluoromethane	75		75		70-130	0		20
Acetone	105		102		70-130	3		20
Carbon disulfide	96		96		70-130	0		20
Methyl ethyl ketone	99		100		70-130	1		20
Methyl isobutyl ketone	98		96		70-130	2		20
2-Hexanone	96		91		70-130	5		20
Bromochloromethane	107		108		70-130	1		20
Tetrahydrofuran	94		89		70-130	5		20
2,2-Dichloropropane	96		102		70-130	6		20
1,2-Dibromoethane	103		104		70-130	1		20
1,3-Dichloropropane	99		100		70-130	1		20
1,1,1,2-Tetrachloroethane	98		103		70-130	5		20
Bromobenzene	98		101		70-130	3		20
n-Butylbenzene	95		102		70-130	7		20
sec-Butylbenzene	92		98		70-130	6		20
tert-Butylbenzene	91		97		70-130	6		20
o-Chlorotoluene	89		94		70-130	5		20
p-Chlorotoluene	88		92		70-130	4		20
1,2-Dibromo-3-chloropropane	101		100		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2566491
Report Date: 11/03/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01-03 Batch: WG2135795-3 WG2135795-4								
Hexachlorobutadiene	102		110		70-130	8		20
Isopropylbenzene	91		96		70-130	5		20
p-Isopropyltoluene	93		99		70-130	6		20
Naphthalene	103		106		70-130	3		20
n-Propylbenzene	92		97		70-130	5		20
1,2,3-Trichlorobenzene	101		107		70-130	6		20
1,2,4-Trichlorobenzene	107		112		70-130	5		20
1,3,5-Trimethylbenzene	87		92		70-130	6		20
1,2,4-Trimethylbenzene	89		93		70-130	4		20
Diethyl ether	107		100		70-130	7		20
Diisopropyl Ether	100		101		70-130	1		20
Ethyl-Tert-Butyl-Ether	96		96		70-130	0		20
Tertiary-Amyl Methyl Ether	99		102		70-130	3		20
1,4-Dioxane	102		106		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2566491
Report Date: 11/03/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01-03 Batch: WG2135795-3 WG2135795-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		96		70-130
Toluene-d8	99		96		70-130
4-Bromofluorobenzene	90		89		70-130
Dibromofluoromethane	106		105		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2566491
Report Date: 11/03/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04 Batch: WG2135885-3 WG2135885-4								
Methylene chloride	92		91		70-130	1		20
1,1-Dichloroethane	97		95		70-130	2		20
Chloroform	96		98		70-130	2		20
Carbon tetrachloride	105		108		70-130	3		20
1,2-Dichloropropane	92		95		70-130	3		20
Dibromochloromethane	100		102		70-130	2		20
1,1,2-Trichloroethane	95		96		70-130	1		20
Tetrachloroethene	112		114		70-130	2		20
Chlorobenzene	98		98		70-130	0		20
Trichlorofluoromethane	106		100		70-130	6		20
1,2-Dichloroethane	96		100		70-130	4		20
1,1,1-Trichloroethane	103		104		70-130	1		20
Bromodichloromethane	92		97		70-130	5		20
trans-1,3-Dichloropropene	101		99		70-130	2		20
cis-1,3-Dichloropropene	99		104		70-130	5		20
1,1-Dichloropropene	105		108		70-130	3		20
Bromoform	105		104		70-130	1		20
1,1,2,2-Tetrachloroethane	93		91		70-130	2		20
Benzene	98		100		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2566491
Report Date: 11/03/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04 Batch: WG2135885-3 WG2135885-4								
Toluene	91		90		70-130	1		20
Ethylbenzene	94		95		70-130	1		20
Chloromethane	84		79		70-130	6		20
Bromomethane	**149**	Q	**137**	Q	70-130	8		20
Vinyl chloride	96		91		70-130	5		20
Chloroethane	**136**	Q	130		70-130	5		20
1,1-Dichloroethene	103		100		70-130	3		20
trans-1,2-Dichloroethene	101		99		70-130	2		20
Trichloroethene	98		100		70-130	2		20
1,2-Dichlorobenzene	99		100		70-130	1		20
1,3-Dichlorobenzene	102		102		70-130	0		20
1,4-Dichlorobenzene	98		98		70-130	0		20
Methyl tert butyl ether	107		105		70-130	2		20
p/m-Xylene	96		97		70-130	1		20
o-Xylene	92		95		70-130	3		20
cis-1,2-Dichloroethene	100		101		70-130	1		20
Dibromomethane	100		104		70-130	4		20
1,2,3-Trichloropropane	93		93		70-130	0		20
Styrene	90		93		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2566491
Report Date: 11/03/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04 Batch: WG2135885-3 WG2135885-4								
Dichlorodifluoromethane	73		**69**	Q	70-130	6		20
Acetone	**136**	Q	126		70-130	8		20
Carbon disulfide	98		93		70-130	5		20
Methyl ethyl ketone	104		96		70-130	8		20
Methyl isobutyl ketone	97		99		70-130	2		20
2-Hexanone	99		100		70-130	1		20
Bromochloromethane	108		107		70-130	1		20
Tetrahydrofuran	92		92		70-130	0		20
2,2-Dichloropropane	100		98		70-130	2		20
1,2-Dibromoethane	100		103		70-130	3		20
1,3-Dichloropropane	100		99		70-130	1		20
1,1,1,2-Tetrachloroethane	100		102		70-130	2		20
Bromobenzene	100		99		70-130	1		20
n-Butylbenzene	99		99		70-130	0		20
sec-Butylbenzene	96		95		70-130	1		20
tert-Butylbenzene	94		94		70-130	0		20
o-Chlorotoluene	88		91		70-130	3		20
p-Chlorotoluene	90		90		70-130	0		20
1,2-Dibromo-3-chloropropane	96		98		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2566491
Report Date: 11/03/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04 Batch: WG2135885-3 WG2135885-4								
Hexachlorobutadiene	106		106		70-130	0		20
Isopropylbenzene	95		93		70-130	2		20
p-Isopropyltoluene	96		96		70-130	0		20
Naphthalene	103		105		70-130	2		20
n-Propylbenzene	96		95		70-130	1		20
1,2,3-Trichlorobenzene	102		105		70-130	3		20
1,2,4-Trichlorobenzene	107		109		70-130	2		20
1,3,5-Trimethylbenzene	91		90		70-130	1		20
1,2,4-Trimethylbenzene	90		90		70-130	0		20
Diethyl ether	103		98		70-130	5		20
Diisopropyl Ether	101		100		70-130	1		20
Ethyl-Tert-Butyl-Ether	97		97		70-130	0		20
Tertiary-Amyl Methyl Ether	99		102		70-130	3		20
1,4-Dioxane	99		106		70-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2566491
Report Date: 11/03/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04 Batch: WG2135885-3 WG2135885-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		97		70-130
Toluene-d8	99		97		70-130
4-Bromofluorobenzene	91		88		70-130
Dibromofluoromethane	105		105		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2566491
Report Date: 11/03/25

SAMPLE RESULTS

Lab ID: L2566491-01
Client ID: 045163-MW404-(6-7')
Sample Location: SOMERVILLE, MASSACHUSETTS
Sample Depth:
Matrix: Soil
Date Collected: 10/20/25 07:45
Date Received: 10/21/25
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.5		%	0.100	NA	1	-	10/22/25 11:11	121,2540G	ROI

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2566491
Report Date: 11/03/25

SAMPLE RESULTS

Lab ID: L2566491-02
Client ID: 045163-MW404-(7-8')
Sample Location: SOMERVILLE, MASSACHUSETTS
Sample Depth:
Matrix: Soil

Date Collected: 10/20/25 07:50
Date Received: 10/21/25
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.1		%	0.100	NA	1	-	10/22/25 11:11	121,2540G	ROI

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2566491
Report Date: 11/03/25

SAMPLE RESULTS

Lab ID: L2566491-03
Client ID: 045163-MW404-(10')
Sample Location: SOMERVILLE, MASSACHUSETTS
Sample Depth:
Matrix: Soil
Date Collected: 10/20/25 09:30
Date Received: 10/21/25
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.8		%	0.100	NA	1	-	10/22/25 11:11	121,2540G	ROI

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2566491
Report Date: 11/03/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2566491-01A	Vial MeOH preserved	NA	NA			Y	Absent		MCP-8260HLW-21(14)
L2566491-01B	Vial water preserved	NA	NA			Y	Absent	21-OCT-25 19:23	MCP-8260HLW-21(14)
L2566491-01C	Vial water preserved	NA	NA			Y	Absent	21-OCT-25 19:23	MCP-8260HLW-21(14)
L2566491-01D	Plastic 2oz unpreserved for TS	NA	NA			Y	Absent		TS(7)
L2566491-02A	Vial MeOH preserved	NA	NA			Y	Absent		MCP-8260HLW-21(14)
L2566491-02B	Vial water preserved	NA	NA			Y	Absent	21-OCT-25 19:23	MCP-8260HLW-21(14)
L2566491-02C	Vial water preserved	NA	NA			Y	Absent	21-OCT-25 19:23	MCP-8260HLW-21(14)
L2566491-02D	Plastic 2oz unpreserved for TS	NA	NA			Y	Absent		TS(7)
L2566491-03A	Vial MeOH preserved	NA	NA			Y	Absent		MCP-8260HLW-21(14)
L2566491-03B	Vial water preserved	NA	NA			Y	Absent	21-OCT-25 19:23	MCP-8260HLW-21(14)
L2566491-03C	Vial water preserved	NA	NA			Y	Absent	21-OCT-25 19:23	MCP-8260HLW-21(14)
L2566491-03D	Plastic 2oz unpreserved for TS	NA	NA			Y	Absent		TS(7)
L2566491-04A	Vial MeOH preserved	NA	NA			Y	Absent		MCP-8260HLW-21(14)
L2566491-04B	Vial MeOH preserved	NA	NA			Y	Absent		MCP-8260HLW-21(14)
L2566491-04C	Vial MeOH preserved	NA	NA			Y	Absent		MCP-8260HLW-21(14)
L2566491-04D	Vial water preserved	NA	NA			Y	Absent	**21-OCT-25 19:23**	MCP-8260HLW-21(14)
L2566491-04E	Vial water preserved	NA	NA			Y	Absent	**21-OCT-25 19:23**	MCP-8260HLW-21(14)
L2566491-04F	Vial water preserved	NA	NA			Y	Absent	**21-OCT-25 19:23**	MCP-8260HLW-21(14)

*Values in parentheses indicate holding time in days

Project Name:	50 TUFTS STREET	**Lab Number:**	L2566491
Project Number:	045163	**Report Date:**	11/03/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	50 TUFTS STREET	**Lab Number:**	L2566491
Project Number:	045163	**Report Date:**	11/03/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	50 TUFTS STREET	**Lab Number:**	L2566491
Project Number:	045163	**Report Date:**	11/03/25

Data Qualifiers

ND	- Not detected at the reporting limit (RL) for the sample.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
S	- Analytical results are from modified screening analysis.
V	- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
Z	- The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2566491
Report Date: 11/03/25

REFERENCES

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

141 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA and IIB, November 2021.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY kY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
MA M-MA00030, CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

Chain-of-Custody Record

Laboratory: PACE

Laboratory Job # (Lab use only) L2566491

GEI Consultants
400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000

Project Information

Project Name: 50 TUFTS ST.

Project Number: 045163

Project Location: SOMERVILLE, MA

Project Manager: CHRIS CONER

Page 1 of 1

Send Report to: LABDATA@geiconsultants.com
CCONER@geiconsultants.com
IGLADSTONE@geiconsultants.com

MCP PRESUMPTIVE CERTAINTY AND MCP ANALYTICAL METHODS REQUIRED: (YES) NO

STATE AND FEDERAL REGULATORY REQUIREMENTS/REPORT LIMITS

State/Federal Program: (MA) 401WQC Other _____ NH RI CT NY ME

MA MCP Criteria are Method 1 S-1 and GW-2/GW-3. Circle if GW-1 is required.

Preservative

	Lab Sample Number	GEI Sample ID	Collection Date	Collection Time	Matrix	No. of Bottles	Sampler(s) Initials	VOC (Preservative: HCl/MeOH)	Total Solids (Preservative: 1/2)	Sample Specific Remarks
1	66491 01	045163-MW404-(6-7')	10/20/25	0745	SO	4	CMG	X	X	
2	02	045163-MW404-(7-8')	10/20/25	0750	SO	4	CMG	X	X	
3	03	045163-MW404-(10')	10/20/25	0930	SO	4	CMG	X	X	
4	04	TRIP BLANK	9/24/25	1200	—	2	PC	X		

Sample Handling

Samples Field Filtered: YES NO (NA)

Sampled Shipped With Ice: (YES) NO

	Relinquished by sampler: (signature)	Date	Time	Received by: (signature)
1		10/20/25	1500	1. GEI SAMPLE FRIDGE
2	2. GEI SAMPLE FRIDGE	10/21/25	1240	2.
3	3.	10/21/25	1245	3. 10-21-25 1240
4	4.	10-21-25	1800	4.
5	5.			5.

Turnaround Time (Business days):

Normal (X) 4-Day ____ 3-Day ____ 2-Day ____ 1-Day ____ Other ____

Before submitting rush turnaround samples, you **must** notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

Matrix Abbreviations: SO = Soil GW = Groundwater SW = Surface Water SD = Sediment CO = Concrete PC = Paint Chip CLK = Caulk

Method Blank Summary
Form 4
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2566491
Project Name	: 50 TUFTS STREET	**Project Number**	: 045163
Lab Sample ID	: WG2135795-5	**Lab File ID**	: V04251031A05
Instrument ID	: VOA104		
Matrix	: SOIL	**Analysis Date**	: 10/31/25 08:22

Client Sample No.	Lab Sample ID	Analysis Date
WG2135795-3LCS	WG2135795-3	10/31/25 06:36
WG2135795-4LCSD	WG2135795-4	10/31/25 07:03
045163-MW404-(6-7')	L2566491-01	10/31/25 11:00
045163-MW404-(7-8')	L2566491-02	10/31/25 11:26
045163-MW404-(10')	L2566491-03	10/31/25 11:53

Method Blank Summary
Form 4
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2566491
Project Name	: 50 TUFTS STREET	**Project Number**	: 045163
Lab Sample ID	: WG2135885-5	**Lab File ID**	: V04251101A05
Instrument ID	: VOA104		
Matrix	: SOIL	**Analysis Date**	: 11/01/25 11:43

Client Sample No.	Lab Sample ID	Analysis Date
WG2135885-3LCS	WG2135885-3	11/01/25 09:57
WG2135885-4LCSD	WG2135885-4	11/01/25 10:24
TRIP BLANK	L2566491-04	11/01/25 14:03

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2566491
Project Name	: 50 TUFTS STREET	**Project Number**	: 045163
Instrument ID	: VOA104	**Calibration Date**	: 10/31/25 06:36
Lab File ID	: V04251031A01	**Init. Calib. Date(s)**	: 06/11/25 06/11/25
Sample No	: WG2135795-2	**Init. Calib. Times**	: 14:39 19:26
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	85	0
Dichlorodifluoromethane	0.359	0.27	-	24.8*	20	60	0
Chloromethane	0.331	0.281	-	15.1	20	77	0
Vinyl chloride	0.382	0.357	-	6.5	20	79	0
Bromomethane	0.316	0.46	-	-45.6*	20	139	0
Chloroethane	0.234	0.316	-	-35*	20	112	0
Trichlorofluoromethane	0.536	0.533	-	0.6	20	77	0
Ethyl ether	0.128	0.137	-	-7	20	92	0
1,1-Dichloroethene	0.268	0.272	-	-1.5	20	85	0
Carbon disulfide	0.952	0.915	-	3.9	20	84	0
Freon-113	0.267	0.293	-	-9.7	20	83	0
Acrolein	0.026	0.023	-	11.5	20	83	-.01
Methylene chloride	0.325	0.297	-	8.6	20	85	0
Acetone	0.057	0.06	-	-5.3	20	98	-.01
trans-1,2-Dichloroethene	0.295	0.295	-	0	20	86	0
Methyl acetate	40	39.941	-	0.1	20	93	0
Methyl tert-butyl ether	0.651	0.693	-	-6.5	20	90	0
tert-Butyl alcohol	0.019	0.019	-	0	20	87	-.01
Diisopropyl ether	0.714	0.711	-	0.4	20	84	0
1,1-Dichloroethane	0.533	0.504	-	5.4	20	82	0
Halothane	0.223	0.233	-	-4.5	20	87	0
Acrylonitrile	0.044	0.046	-	-4.5	20	89	0
Ethyl tert-butyl ether	0.735	0.709	-	3.5	20	82	0
Vinyl acetate	0.3	0.487	-	-62.3*	20	135	0
cis-1,2-Dichloroethene	0.316	0.315	-	0.3	20	86	0
2,2-Dichloropropane	0.468	0.449	-	4.1	20	85	0
Bromochloromethane	0.144	0.154	-	-6.9	20	91	0
Cyclohexane	0.404	0.358	-	11.4	20	72	0
Chloroform	0.551	0.527	-	4.4	20	85	0
Ethyl acetate	0.132	0.147	-	-11.4	20	93	0
Carbon tetrachloride	0.437	0.438	-	-0.2	20	83	0
Tetrahydrofuran	0.058	0.054	-	6.9	20	89	0
Dibromofluoromethane	0.287	0.304	-	-5.9	20	92	-.01
1,1,1-Trichloroethane	0.465	0.46	-	1.1	20	84	0
2-Butanone	0.056	0.056	-	0	20	88	0
1,1-Dichloropropene	0.332	0.34	-	-2.4	20	80	0
Benzene	1.024	0.976	-	4.7	20	81	0
tert-Amyl methyl ether	0.642	0.637	-	0.8	20	85	0
1,2-Dichloroethane-d4	0.258	0.253	-	1.9	20	87	-.01
1,2-Dichloroethane	0.344	0.324	-	5.8	20	82	0
Methyl cyclohexane	0.424	0.402	-	5.2	20	75	0
Trichloroethene	0.307	0.292	-	4.9	20	83	0
Dibromomethane	0.169	0.167	-	1.2	20	87	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		**Lab Number**	: L2566491	
Project Name	: 50 TUFTS STREET		**Project Number**	: 045163	
Instrument ID	: VOA104		**Calibration Date**	: 10/31/25 06:36	
Lab File ID	: V04251031A01		**Init. Calib. Date(s)**	: 06/11/25	06/11/25
Sample No	: WG2135795-2		**Init. Calib. Times**	: 14:39	19:26
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.269	0.245	-	8.9	20	78	0
Bromodichloromethane	0.427	0.391	-	8.4	20	83	0
1,4-Dioxane	0.0016	0.00164*	-	-2.5	20	81	0
cis-1,3-Dichloropropene	0.42	0.408	-	2.9	20	80	0
Chlorobenzene-d5	1	1	-	0	20	85	0
Toluene-d8	1.363	1.352	-	0.8	20	83	0
Toluene	0.949	0.838	-	11.7	20	80	0
4-Methyl-2-pentanone	0.077	0.076	-	1.3	20	79	0
Tetrachloroethene	0.392	0.432	-	-10.2	20	90	0
trans-1,3-Dichloropropene	0.476	0.481	-	-1.1	20	83	0
Ethyl methacrylate	0.334	0.309	-	7.5	20	81	0
1,1,2-Trichloroethane	0.252	0.239	-	5.2	20	83	0
Chlorodibromomethane	0.409	0.416	-	-1.7	20	85	0
1,3-Dichloropropane	0.445	0.439	-	1.3	20	83	0
1,2-Dibromoethane	0.286	0.295	-	-3.1	20	84	0
2-Hexanone	0.134	0.128	-	4.5	20	81	0
Chlorobenzene	1.048	1.008	-	3.8	20	83	0
Ethylbenzene	1.806	1.632	-	9.6	20	80	0
1,1,1,2-Tetrachloroethane	0.391	0.384	-	1.8	20	82	0
p/m Xylene	0.681	0.63	-	7.5	20	80	0
o Xylene	0.687	0.619	-	9.9	20	80	0
Styrene	1.12	0.987	-	11.9	20	79	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	82	0
Bromoform	0.453	0.465	-	-2.6	20	83	0
Isopropylbenzene	3.359	3.043	-	9.4	20	78	0
4-Bromofluorobenzene	0.902	0.812	-	10	20	75	0
Bromobenzene	0.85	0.833	-	2	20	84	0
n-Propylbenzene	3.963	3.643	-	8.1	20	79	0
1,4-Dichlorobutane	0.817	0.692	-	15.3	20	72	0
1,1,2,2-Tetrachloroethane	0.704	0.642	-	8.8	20	80	0
4-Ethyltoluene	3.244	3.003	-	7.4	20	79	0
2-Chlorotoluene	2.332	2.071	-	11.2	20	77	0
1,3,5-Trimethylbenzene	2.88	2.508	-	12.9	20	76	0
1,2,3-Trichloropropane	0.485	0.455	-	6.2	20	80	0
trans-1,4-Dichloro-2-buten	0.171	0.158	-	7.6	20	77	0
4-Chlorotoluene	2.37	2.091	-	11.8	20	77	0
tert-Butylbenzene	2.402	2.184	-	9.1	20	78	0
1,2,4-Trimethylbenzene	2.804	2.487	-	11.3	20	77	0
sec-Butylbenzene	3.63	3.332	-	8.2	20	78	0
p-Isopropyltoluene	3.077	2.853	-	7.3	20	80	0
1,3-Dichlorobenzene	1.554	1.558	-	-0.3	20	85	0
1,4-Dichlorobenzene	1.634	1.574	-	3.7	20	85	0
p-Diethylbenzene	1.809	1.689	-	6.6	20	82	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		**Lab Number**	: L2566491	
Project Name	: 50 TUFTS STREET		**Project Number**	: 045163	
Instrument ID	: VOA104		**Calibration Date**	: 10/31/25 06:36	
Lab File ID	: V04251031A01		**Init. Calib. Date(s)**	: 06/11/25	06/11/25
Sample No	: WG2135795-2		**Init. Calib. Times**	: 14:39	19:26
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	2.684	2.56	-	4.6	20	80	0
1,2-Dichlorobenzene	1.464	1.414	-	3.4	20	82	0
1,2,4,5-Tetramethylbenzene	2.697	2.644	-	2	20	85	0
1,2-Dibromo-3-chloropropan	0.099	0.1	-	-1	20	80	0
1,3,5-Trichlorobenzene	1.186	1.238	-	-4.4	20	91	0
Hexachlorobutadiene	0.598	0.611	-	-2.2	20	86	0
1,2,4-Trichlorobenzene	0.94	1.003	-	-6.7	20	91	0
Naphthalene	1.598	1.65	-	-3.3	20	90	0
1,2,3-Trichlorobenzene	0.779	0.785	-	-0.8	20	86	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2566491
Project Name	: 50 TUFTS STREET	**Project Number**	: 045163
Instrument ID	: VOA104	**Calibration Date**	: 11/01/25 09:57
Lab File ID	: V04251101A01	**Init. Calib. Date(s)**	: 06/11/25 06/11/25
Sample No	: WG2135885-2	**Init. Calib. Times**	: 14:39 19:26
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	84	0
Dichlorodifluoromethane	0.359	0.262	-	27*	20	57	0
Chloromethane	0.331	0.278	-	16	20	75	0
Vinyl chloride	0.382	0.365	-	4.5	20	80	0
Bromomethane	0.316	0.471	-	-49.1*	20	141	0
Chloroethane	0.234	0.319	-	-36.3*	20	111	0
Trichlorofluoromethane	0.536	0.569	-	-6.2	20	81	0
Ethyl ether	0.128	0.132	-	-3.1	20	88	0
1,1-Dichloroethene	0.268	0.276	-	-3	20	85	0
Carbon disulfide	0.952	0.93	-	2.3	20	84	0
Freon-113	0.267	0.311	-	-16.5	20	86	0
Acrolein	0.026	0.023	-	11.5	20	80	-.01
Methylene chloride	0.325	0.299	-	8	20	84	0
Acetone	0.057	0.077	-	-35.1*	20	125	-.01
trans-1,2-Dichloroethene	0.295	0.298	-	-1	20	86	0
Methyl acetate	40	39.136	-	2.2	20	90	-.01
Methyl tert-butyl ether	0.651	0.697	-	-7.1	20	90	0
tert-Butyl alcohol	0.019	0.019	-	0	20	85	0
Diisopropyl ether	0.714	0.725	-	-1.5	20	85	0
1,1-Dichloroethane	0.533	0.514	-	3.6	20	82	0
Halothane	0.223	0.243	-	-9	20	89	-.01
Acrylonitrile	0.044	0.045	-	-2.3	20	86	0
Ethyl tert-butyl ether	0.735	0.711	-	3.3	20	81	0
Vinyl acetate	0.3	0.485	-	-61.7*	20	132	0
cis-1,2-Dichloroethene	0.316	0.318	-	-0.6	20	85	0
2,2-Dichloropropane	0.468	0.467	-	0.2	20	87	0
Bromochloromethane	0.144	0.155	-	-7.6	20	91	0
Cyclohexane	0.404	0.389	-	3.7	20	77	0
Chloroform	0.551	0.53	-	3.8	20	85	0
Ethyl acetate	0.132	0.141	-	-6.8	20	89	0
Carbon tetrachloride	0.437	0.461	-	-5.5	20	86	0
Tetrahydrofuran	0.058	0.053	-	8.6	20	86	0
Dibromofluoromethane	0.287	0.301	-	-4.9	20	89	-.01
1,1,1-Trichloroethane	0.465	0.48	-	-3.2	20	86	0
2-Butanone	0.056	0.058	-	-3.6	20	90	0
1,1-Dichloropropene	0.332	0.349	-	-5.1	20	81	0
Benzene	1.024	1	-	2.3	20	82	0
tert-Amyl methyl ether	0.642	0.637	-	0.8	20	84	0
1,2-Dichloroethane-d4	0.258	0.256	-	0.8	20	87	0
1,2-Dichloroethane	0.344	0.331	-	3.8	20	82	0
Methyl cyclohexane	0.424	0.444	-	-4.7	20	82	0
Trichloroethene	0.307	0.3	-	2.3	20	84	0
Dibromomethane	0.169	0.169	-	0	20	87	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		**Lab Number**	: L2566491	
Project Name	: 50 TUFTS STREET		**Project Number**	: 045163	
Instrument ID	: VOA104		**Calibration Date**	: 11/01/25 09:57	
Lab File ID	: V04251101A01		**Init. Calib. Date(s)**	: 06/11/25	06/11/25
Sample No	: WG2135885-2		**Init. Calib. Times**	: 14:39	19:26
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.269	0.248	-	7.8	20	78	0
Bromodichloromethane	0.427	0.394	-	7.7	20	82	0
1,4-Dioxane	0.0016	0.00158*	-	1.3	20	77	0
cis-1,3-Dichloropropene	0.42	0.417	-	0.7	20	81	-.01
Chlorobenzene-d5	1	1	-	0	20	85	0
Toluene-d8	1.363	1.347	-	1.2	20	83	0
Toluene	0.949	0.86	-	9.4	20	82	0
4-Methyl-2-pentanone	0.077	0.075	-	2.6	20	78	0
Tetrachloroethene	0.392	0.441	-	-12.5	20	92	0
trans-1,3-Dichloropropene	0.476	0.482	-	-1.3	20	84	0
Ethyl methacrylate	0.334	0.311	-	6.9	20	82	0
1,1,2-Trichloroethane	0.252	0.24	-	4.8	20	84	0
Chlorodibromomethane	0.409	0.411	-	-0.5	20	84	0
1,3-Dichloropropane	0.445	0.443	-	0.4	20	83	0
1,2-Dibromoethane	0.286	0.287	-	-0.3	20	82	0
2-Hexanone	0.134	0.133	-	0.7	20	84	0
Chlorobenzene	1.048	1.031	-	1.6	20	85	0
Ethylbenzene	1.806	1.692	-	6.3	20	83	0
1,1,1,2-Tetrachloroethane	0.391	0.392	-	-0.3	20	84	0
p/m Xylene	0.681	0.652	-	4.3	20	83	0
o Xylene	0.687	0.631	-	8.2	20	82	0
Styrene	1.12	1.012	-	9.6	20	81	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	81	0
Bromoform	0.453	0.474	-	-4.6	20	84	0
Isopropylbenzene	3.359	3.177	-	5.4	20	81	0
4-Bromofluorobenzene	0.902	0.819	-	9.2	20	75	0
Bromobenzene	0.85	0.849	-	0.1	20	85	0
n-Propylbenzene	3.963	3.806	-	4	20	82	0
1,4-Dichlorobutane	0.817	0.705	-	13.7	20	73	0
1,1,2,2-Tetrachloroethane	0.704	0.653	-	7.2	20	81	0
4-Ethyltoluene	3.244	3.105	-	4.3	20	82	0
2-Chlorotoluene	2.332	2.055	-	11.9	20	76	0
1,3,5-Trimethylbenzene	2.88	2.611	-	9.3	20	78	0
1,2,3-Trichloropropane	0.485	0.452	-	6.8	20	79	0
trans-1,4-Dichloro-2-buten	0.171	0.16	-	6.4	20	77	0
4-Chlorotoluene	2.37	2.124	-	10.4	20	78	0
tert-Butylbenzene	2.402	2.255	-	6.1	20	80	0
1,2,4-Trimethylbenzene	2.804	2.536	-	9.6	20	78	0
sec-Butylbenzene	3.63	3.466	-	4.5	20	80	0
p-Isopropyltoluene	3.077	2.957	-	3.9	20	82	0
1,3-Dichlorobenzene	1.554	1.583	-	-1.9	20	86	0
1,4-Dichlorobenzene	1.634	1.599	-	2.1	20	86	0
p-Diethylbenzene	1.809	1.74	-	3.8	20	84	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		**Lab Number**	: L2566491	
Project Name	: 50 TUFTS STREET		**Project Number**	: 045163	
Instrument ID	: VOA104		**Calibration Date**	: 11/01/25 09:57	
Lab File ID	: V04251101A01		**Init. Calib. Date(s)**	: 06/11/25	06/11/25
Sample No	: WG2135885-2		**Init. Calib. Times**	: 14:39	19:26
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	2.684	2.648	-	1.3	20	83	0
1,2-Dichlorobenzene	1.464	1.45	-	1	20	84	0
1,2,4,5-Tetramethylbenzene	2.697	2.687	-	0.4	20	86	0
1,2-Dibromo-3-chloropropan	0.099	0.095	-	4	20	76	0
1,3,5-Trichlorobenzene	1.186	1.242	-	-4.7	20	91	0
Hexachlorobutadiene	0.598	0.632	-	-5.7	20	89	0
1,2,4-Trichlorobenzene	0.94	1.009	-	-7.3	20	91	0
Naphthalene	1.598	1.648	-	-3.1	20	89	0
1,2,3-Trichlorobenzene	0.779	0.795	-	-2.1	20	87	0

*** Value outside of QC limits.**

Sample Delivery Group Summary

Pace Job Number : L2566491

Account Name : GEI Consultants
Project Number : 045163
Project Name : 50 TUFTS STREET

Received : 21-OCT-2025
Reviewer : Julie Convery

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	4.7	

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**NA**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NO**

ANALYTICAL REPORT

Lab Number:	L2571243
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	50 TUFTS STREET
Project Number:	045163
Report Date:	11/19/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571243
Report Date: 11/19/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2571243-01	045163-MW117S	WATER	SOMERVILLE, MASSACHUSETTS	11/10/25 10:15	11/10/25
L2571243-02	045163-MW104R	WATER	SOMERVILLE, MASSACHUSETTS	11/10/25 10:30	11/10/25
L2571243-03	045163-MW117D	WATER	SOMERVILLE, MASSACHUSETTS	11/10/25 10:40	11/10/25
L2571243-04	045163-MW406	WATER	SOMERVILLE, MASSACHUSETTS	11/10/25 11:00	11/10/25
L2571243-05	045163-MW117T	WATER	SOMERVILLE, MASSACHUSETTS	11/10/25 11:25	11/10/25
L2571243-06	045163-MW403	WATER	SOMERVILLE, MASSACHUSETTS	11/10/25 11:55	11/10/25
L2571243-07	045163-MW405	WATER	SOMERVILLE, MASSACHUSETTS	11/10/25 12:40	11/10/25
L2571243-08	045163-MW118S	WATER	SOMERVILLE, MASSACHUSETTS	11/10/25 12:45	11/10/25
L2571243-09	045163-MW118D	WATER	SOMERVILLE, MASSACHUSETTS	11/10/25 13:05	11/10/25
L2571243-10	045163-MW203R	WATER	SOMERVILLE, MASSACHUSETTS	11/10/25 13:15	11/10/25
L2571243-11	045163-MW118T	WATER	SOMERVILLE, MASSACHUSETTS	11/10/25 14:10	11/10/25

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E 1.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E 2.	PFAS Only: Were aqueous samples extracted without filtering?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits/lower limits of quantitation at or below all CAM reporting limits/lower limits of quantitation specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	50 TUFTS STREET	**Lab Number:**	L2571243
Project Number:	045163	**Report Date:**	11/19/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	50 TUFTS STREET	**Lab Number:**	L2571243
Project Number:	045163	**Report Date:**	11/19/25

Case Narrative (continued)

MCP Related Narratives

Total Metals

In reference to question I:

All samples were analyzed for a subset of MCP analytes per client request.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 11/19/25

QC OUTLIER SUMMARY REPORT

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571243
Report Date: 11/19/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
MCP Volatile Organics by GC/MS - East Longmeadow Lab								
8260D	Batch QC	WG2143377-2	Bromomethane	LCS	30	40-160	01-11	potential low bias
8260D	Batch QC	WG2143377-3	Bromomethane	LCSD	28	40-160	01-11	potential low bias

ORGANICS

VOLATILES

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571243
Report Date: 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-01
Client ID: 045163-MW117S
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/10/25 10:15
Date Received: 11/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/13/25 23:00
Analyst: EEH
Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND	V-05	ug/l	2.0	--	1
Bromomethane	ND	L-04, V-05	ug/l	2.0	--	1
Vinyl chloride	ND	V-05	ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-01 Date Collected: 11/10/25 10:15

Client ID: 045163-MW117S Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND	V-05	ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-01 Date Collected: 11/10/25 10:15

Client ID: 045163-MW117S Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	104		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571243
Report Date: 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-02
Client ID: 045163-MW104R
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/10/25 10:30
Date Received: 11/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 117,RSK-175
Analytical Date: 11/12/25 12:35
Analyst: TPH
Extraction Method: RSK175
Extraction Date: 11/12/25 12:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Dissolved Gases by GC - East Longmeadow Lab						
Methane	ND		mg/l	0.0026	--	1
Ethene	ND		mg/l	0.0065	--	1
Ethane	ND		mg/l	0.0052	--	1

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571243
Report Date: 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-02
Client ID: 045163-MW104R
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/10/25 10:30
Date Received: 11/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 05:21
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-05	ug/l	50	--	10
1,1-Dichloroethane	ND	RL-05	ug/l	10	--	10
Chloroform	ND	RL-05	ug/l	20	--	10
Carbon tetrachloride	ND	RL-05	ug/l	10	--	10
1,2-Dichloropropane	ND	RL-05	ug/l	10	--	10
Chlorodibromomethane	ND	RL-05	ug/l	5.0	--	10
1,1,2-Trichloroethane	ND	RL-05	ug/l	10	--	10
Tetrachloroethene	790	RL-05	ug/l	10	--	10
Chlorobenzene	ND	RL-05	ug/l	10	--	10
Trichlorofluoromethane	ND	RL-05	ug/l	20	--	10
1,2-Dichloroethane	ND	RL-05	ug/l	10	--	10
1,1,1-Trichloroethane	ND	RL-05	ug/l	10	--	10
Bromodichloromethane	ND	RL-05	ug/l	10	--	10
trans-1,3-Dichloropropene	ND	RL-05	ug/l	4.0	--	10
cis-1,3-Dichloropropene	ND	RL-05	ug/l	4.0	--	10
1,1-Dichloropropene	ND	RL-05	ug/l	5.0	--	10
Bromoform	ND	RL-05	ug/l	10	--	10
1,1,2,2-Tetrachloroethane	ND	RL-05	ug/l	5.0	--	10
Benzene	ND	RL-05	ug/l	10	--	10
Toluene	ND	RL-05	ug/l	10	--	10
Ethylbenzene	ND	RL-05	ug/l	10	--	10
Chloromethane	ND	V-05, RL-05	ug/l	20	--	10
Bromomethane	ND	L-04, V-05, RL-05	ug/l	20	--	10
Vinyl chloride	ND	V-05, RL-05	ug/l	20	--	10
Chloroethane	ND	RL-05	ug/l	20	--	10
1,1-Dichloroethene	ND	RL-05	ug/l	10	--	10

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-02 Date Collected: 11/10/25 10:30

Client ID: 045163-MW104R Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
trans-1,2-Dichloroethene	ND	RL-05	ug/l	10	--	10
Trichloroethene	24	RL-05	ug/l	10	--	10
1,2-Dichlorobenzene	ND	RL-05	ug/l	10	--	10
1,3-Dichlorobenzene	ND	RL-05	ug/l	10	--	10
1,4-Dichlorobenzene	ND	RL-05	ug/l	10	--	10
Methyl tert-butyl ether	ND	RL-05	ug/l	10	--	10
p/m-Xylene	ND	RL-05	ug/l	20	--	10
o-Xylene	ND	RL-05	ug/l	10	--	10
cis-1,2-Dichloroethene	ND	RL-05	ug/l	10	--	10
Dibromomethane	ND	RL-05	ug/l	10	--	10
1,2,3-Trichloropropane	ND	RL-05	ug/l	20	--	10
Styrene	ND	RL-05	ug/l	10	--	10
Dichlorodifluoromethane	ND	RL-05	ug/l	20	--	10
Acetone	ND	V-05, RL-05	ug/l	100	--	10
Carbon disulfide	ND	RL-05	ug/l	50	--	10
2-Butanone	ND	RL-05	ug/l	100	--	10
4-Methyl-2-pentanone	ND	RL-05	ug/l	100	--	10
2-Hexanone	ND	RL-05	ug/l	100	--	10
Bromochloromethane	ND	RL-05	ug/l	10	--	10
Tetrahydrofuran	ND	RL-05	ug/l	20	--	10
2,2-Dichloropropane	ND	RL-05	ug/l	10	--	10
1,2-Dibromoethane	ND	RL-05	ug/l	5.0	--	10
1,3-Dichloropropane	ND	RL-05	ug/l	5.0	--	10
1,1,1,2-Tetrachloroethane	ND	RL-05	ug/l	10	--	10
Bromobenzene	ND	RL-05	ug/l	10	--	10
n-Butylbenzene	ND	RL-05	ug/l	10	--	10
sec-Butylbenzene	ND	RL-05	ug/l	10	--	10
tert-Butylbenzene	ND	RL-05	ug/l	10	--	10
o-Chlorotoluene	ND	RL-05	ug/l	10	--	10
p-Chlorotoluene	ND	RL-05	ug/l	10	--	10
1,2-Dibromo-3-chloropropane	ND	RL-05	ug/l	20	--	10
Hexachlorobutadiene	ND	RL-05	ug/l	6.0	--	10
Isopropylbenzene	ND	RL-05	ug/l	10	--	10
p-Isopropyltoluene	ND	RL-05	ug/l	10	--	10
Naphthalene	ND	RL-05	ug/l	20	--	10
n-Propylbenzene	ND	RL-05	ug/l	10	--	10
1,2,3-Trichlorobenzene	ND	RL-05	ug/l	20	--	10

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-02 Date Collected: 11/10/25 10:30

Client ID: 045163-MW104R Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trichlorobenzene	ND	RL-05	ug/l	10	--	10
1,3,5-Trimethylbenzene	ND	RL-05	ug/l	10	--	10
1,2,4-Trimethylbenzene	ND	RL-05	ug/l	10	--	10
Diethyl Ether	ND	RL-05	ug/l	20	--	10
Diisopropyl Ether	ND	RL-05	ug/l	5.0	--	10
Tert-Butyl Ethyl Ether	ND	RL-05	ug/l	5.0	--	10
Tert-Amyl Methyl Ether	ND	RL-05	ug/l	5.0	--	10
1,4-Dioxane	ND	RL-05	ug/l	500	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99	RL-05	70-130
Toluene-d8	93	RL-05	70-130
4-Bromofluorobenzene	98	RL-05	70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571243
Report Date: 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-03
Client ID: 045163-MW117D
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/10/25 10:40
Date Received: 11/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/13/25 23:25
Analyst: EEH
Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND	V-05	ug/l	2.0	--	1
Bromomethane	ND	L-04, V-05	ug/l	2.0	--	1
Vinyl chloride	ND	V-05	ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-03 Date Collected: 11/10/25 10:40

Client ID: 045163-MW117D Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND	V-05	ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-03 Date Collected: 11/10/25 10:40

Client ID: 045163-MW117D Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571243
Report Date: 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-04
Client ID: 045163-MW406
Sample Location: SOMERVILLE, MASSACHUSETTS

Date Collected: 11/10/25 11:00
Date Received: 11/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/13/25 23:51
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	1.0		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND	V-05	ug/l	2.0	--	1
Bromomethane	ND	L-04, V-05	ug/l	2.0	--	1
Vinyl chloride	ND	V-05	ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-04 Date Collected: 11/10/25 11:00

Client ID: 045163-MW406 Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	14	V-05	ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-04 Date Collected: 11/10/25 11:00

Client ID: 045163-MW406 Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	100		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571243
Report Date: 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-05
Client ID: 045163-MW117T
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/10/25 11:25
Date Received: 11/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 00:16
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND	V-05	ug/l	2.0	--	1
Bromomethane	ND	L-04, V-05	ug/l	2.0	--	1
Vinyl chloride	ND	V-05	ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-05 Date Collected: 11/10/25 11:25

Client ID: 045163-MW117T Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND	V-05	ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-05 Date Collected: 11/10/25 11:25

Client ID: 045163-MW117T Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	104		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571243
Report Date: 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-06
Client ID: 045163-MW403
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/10/25 11:55
Date Received: 11/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 05:47
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-05	ug/l	50	--	10
1,1-Dichloroethane	48	RL-05	ug/l	10	--	10
Chloroform	ND	RL-05	ug/l	20	--	10
Carbon tetrachloride	ND	RL-05	ug/l	10	--	10
1,2-Dichloropropane	ND	RL-05	ug/l	10	--	10
Chlorodibromomethane	ND	RL-05	ug/l	5.0	--	10
1,1,2-Trichloroethane	ND	RL-05	ug/l	10	--	10
Tetrachloroethene	710	RL-05	ug/l	10	--	10
Chlorobenzene	ND	RL-05	ug/l	10	--	10
Trichlorofluoromethane	ND	RL-05	ug/l	20	--	10
1,2-Dichloroethane	ND	RL-05	ug/l	10	--	10
1,1,1-Trichloroethane	ND	RL-05	ug/l	10	--	10
Bromodichloromethane	ND	RL-05	ug/l	10	--	10
trans-1,3-Dichloropropene	ND	RL-05	ug/l	4.0	--	10
cis-1,3-Dichloropropene	ND	RL-05	ug/l	4.0	--	10
1,1-Dichloropropene	ND	RL-05	ug/l	5.0	--	10
Bromoform	ND	RL-05	ug/l	10	--	10
1,1,2,2-Tetrachloroethane	ND	RL-05	ug/l	5.0	--	10
Benzene	ND	RL-05	ug/l	10	--	10
Toluene	ND	RL-05	ug/l	10	--	10
Ethylbenzene	ND	RL-05	ug/l	10	--	10
Chloromethane	ND	V-05, RL-05	ug/l	20	--	10
Bromomethane	ND	L-04, V-05, RL-05	ug/l	20	--	10
Vinyl chloride	ND	V-05, RL-05	ug/l	20	--	10
Chloroethane	ND	RL-05	ug/l	20	--	10
1,1-Dichloroethene	ND	RL-05	ug/l	10	--	10

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-06 Date Collected: 11/10/25 11:55

Client ID: 045163-MW403 Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
trans-1,2-Dichloroethene	ND	RL-05	ug/l	10	--	10
Trichloroethene	120	RL-05	ug/l	10	--	10
1,2-Dichlorobenzene	ND	RL-05	ug/l	10	--	10
1,3-Dichlorobenzene	ND	RL-05	ug/l	10	--	10
1,4-Dichlorobenzene	ND	RL-05	ug/l	10	--	10
Methyl tert-butyl ether	ND	RL-05	ug/l	10	--	10
p/m-Xylene	ND	RL-05	ug/l	20	--	10
o-Xylene	ND	RL-05	ug/l	10	--	10
cis-1,2-Dichloroethene	13	RL-05	ug/l	10	--	10
Dibromomethane	ND	RL-05	ug/l	10	--	10
1,2,3-Trichloropropane	ND	RL-05	ug/l	20	--	10
Styrene	ND	RL-05	ug/l	10	--	10
Dichlorodifluoromethane	ND	RL-05	ug/l	20	--	10
Acetone	ND	V-05, RL-05	ug/l	100	--	10
Carbon disulfide	ND	RL-05	ug/l	50	--	10
2-Butanone	ND	RL-05	ug/l	100	--	10
4-Methyl-2-pentanone	ND	RL-05	ug/l	100	--	10
2-Hexanone	ND	RL-05	ug/l	100	--	10
Bromochloromethane	ND	RL-05	ug/l	10	--	10
Tetrahydrofuran	ND	RL-05	ug/l	20	--	10
2,2-Dichloropropane	ND	RL-05	ug/l	10	--	10
1,2-Dibromoethane	ND	RL-05	ug/l	5.0	--	10
1,3-Dichloropropane	ND	RL-05	ug/l	5.0	--	10
1,1,1,2-Tetrachloroethane	ND	RL-05	ug/l	10	--	10
Bromobenzene	ND	RL-05	ug/l	10	--	10
n-Butylbenzene	ND	RL-05	ug/l	10	--	10
sec-Butylbenzene	ND	RL-05	ug/l	10	--	10
tert-Butylbenzene	ND	RL-05	ug/l	10	--	10
o-Chlorotoluene	ND	RL-05	ug/l	10	--	10
p-Chlorotoluene	ND	RL-05	ug/l	10	--	10
1,2-Dibromo-3-chloropropane	ND	RL-05	ug/l	20	--	10
Hexachlorobutadiene	ND	RL-05	ug/l	6.0	--	10
Isopropylbenzene	ND	RL-05	ug/l	10	--	10
p-Isopropyltoluene	ND	RL-05	ug/l	10	--	10
Naphthalene	ND	RL-05	ug/l	20	--	10
n-Propylbenzene	ND	RL-05	ug/l	10	--	10
1,2,3-Trichlorobenzene	ND	RL-05	ug/l	20	--	10

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-06 Date Collected: 11/10/25 11:55

Client ID: 045163-MW403 Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trichlorobenzene	ND	RL-05	ug/l	10	--	10
1,3,5-Trimethylbenzene	ND	RL-05	ug/l	10	--	10
1,2,4-Trimethylbenzene	ND	RL-05	ug/l	10	--	10
Diethyl Ether	ND	RL-05	ug/l	20	--	10
Diisopropyl Ether	ND	RL-05	ug/l	5.0	--	10
Tert-Butyl Ethyl Ether	ND	RL-05	ug/l	5.0	--	10
Tert-Amyl Methyl Ether	ND	RL-05	ug/l	5.0	--	10
1,4-Dioxane	ND	RL-05	ug/l	500	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99	RL-05	70-130
Toluene-d8	93	RL-05	70-130
4-Bromofluorobenzene	102	RL-05	70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571243
Report Date: 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-07
Client ID: 045163-MW405
Sample Location: SOMERVILLE, MASSACHUSETTS

Date Collected: 11/10/25 12:40
Date Received: 11/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 00:42
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND	V-05	ug/l	2.0	--	1
Bromomethane	ND	L-04, V-05	ug/l	2.0	--	1
Vinyl chloride	ND	V-05	ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-07 Date Collected: 11/10/25 12:40

Client ID: 045163-MW405 Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND	V-05	ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	2.3		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	3.4		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-07 Date Collected: 11/10/25 12:40

Client ID: 045163-MW405 Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571243
Report Date: 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-08
Client ID: 045163-MW118S
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/10/25 12:45
Date Received: 11/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 01:07
Analyst: EEH
Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND	V-05	ug/l	2.0	--	1
Bromomethane	ND	L-04, V-05	ug/l	2.0	--	1
Vinyl chloride	ND	V-05	ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-08 Date Collected: 11/10/25 12:45

Client ID: 045163-MW118S Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND	V-05	ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	2.3		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-08 Date Collected: 11/10/25 12:45

Client ID: 045163-MW118S Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571243
Report Date: 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-09
Client ID: 045163-MW118D
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/10/25 13:05
Date Received: 11/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 01:32
Analyst: EEH
Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	16		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND	V-05	ug/l	2.0	--	1
Bromomethane	ND	L-04, V-05	ug/l	2.0	--	1
Vinyl chloride	ND	V-05	ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-09 Date Collected: 11/10/25 13:05

Client ID: 045163-MW118D Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	1.1		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	2.8		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND	V-05	ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-09 Date Collected: 11/10/25 13:05

Client ID: 045163-MW118D Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571243
Report Date: 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-10
Client ID: 045163-MW203R
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/10/25 13:15
Date Received: 11/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 06:12
Analyst: EEH
Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-05	ug/l	250	--	50
1,1-Dichloroethane	ND	RL-05	ug/l	50	--	50
Chloroform	ND	RL-05	ug/l	100	--	50
Carbon tetrachloride	ND	RL-05	ug/l	50	--	50
1,2-Dichloropropane	ND	RL-05	ug/l	50	--	50
Chlorodibromomethane	ND	RL-05	ug/l	25	--	50
1,1,2-Trichloroethane	ND	RL-05	ug/l	50	--	50
Tetrachloroethene	5000	RL-05	ug/l	50	--	50
Chlorobenzene	ND	RL-05	ug/l	50	--	50
Trichlorofluoromethane	ND	RL-05	ug/l	100	--	50
1,2-Dichloroethane	ND	RL-05	ug/l	50	--	50
1,1,1-Trichloroethane	ND	RL-05	ug/l	50	--	50
Bromodichloromethane	ND	RL-05	ug/l	50	--	50
trans-1,3-Dichloropropene	ND	RL-05	ug/l	20	--	50
cis-1,3-Dichloropropene	ND	RL-05	ug/l	20	--	50
1,1-Dichloropropene	ND	RL-05	ug/l	25	--	50
Bromoform	ND	RL-05	ug/l	50	--	50
1,1,2,2-Tetrachloroethane	ND	RL-05	ug/l	25	--	50
Benzene	ND	RL-05	ug/l	50	--	50
Toluene	ND	RL-05	ug/l	50	--	50
Ethylbenzene	ND	RL-05	ug/l	50	--	50
Chloromethane	ND	V-05, RL-05	ug/l	100	--	50
Bromomethane	ND	L-04, V-05, RL-05	ug/l	100	--	50
Vinyl chloride	ND	V-05, RL-05	ug/l	100	--	50
Chloroethane	ND	RL-05	ug/l	100	--	50
1,1-Dichloroethene	ND	RL-05	ug/l	50	--	50

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-10 Date Collected: 11/10/25 13:15

Client ID: 045163-MW203R Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
trans-1,2-Dichloroethene	ND	RL-05	ug/l	50	--	50
Trichloroethene	120	RL-05	ug/l	50	--	50
1,2-Dichlorobenzene	ND	RL-05	ug/l	50	--	50
1,3-Dichlorobenzene	ND	RL-05	ug/l	50	--	50
1,4-Dichlorobenzene	ND	RL-05	ug/l	50	--	50
Methyl tert-butyl ether	ND	RL-05	ug/l	50	--	50
p/m-Xylene	ND	RL-05	ug/l	100	--	50
o-Xylene	ND	RL-05	ug/l	50	--	50
cis-1,2-Dichloroethene	ND	RL-05	ug/l	50	--	50
Dibromomethane	ND	RL-05	ug/l	50	--	50
1,2,3-Trichloropropane	ND	RL-05	ug/l	100	--	50
Styrene	ND	RL-05	ug/l	50	--	50
Dichlorodifluoromethane	ND	RL-05	ug/l	100	--	50
Acetone	ND	V-05, RL-05	ug/l	500	--	50
Carbon disulfide	ND	RL-05	ug/l	250	--	50
2-Butanone	ND	RL-05	ug/l	500	--	50
4-Methyl-2-pentanone	ND	RL-05	ug/l	500	--	50
2-Hexanone	ND	RL-05	ug/l	500	--	50
Bromochloromethane	ND	RL-05	ug/l	50	--	50
Tetrahydrofuran	ND	RL-05	ug/l	100	--	50
2,2-Dichloropropane	ND	RL-05	ug/l	50	--	50
1,2-Dibromoethane	ND	RL-05	ug/l	25	--	50
1,3-Dichloropropane	ND	RL-05	ug/l	25	--	50
1,1,1,2-Tetrachloroethane	ND	RL-05	ug/l	50	--	50
Bromobenzene	ND	RL-05	ug/l	50	--	50
n-Butylbenzene	ND	RL-05	ug/l	50	--	50
sec-Butylbenzene	ND	RL-05	ug/l	50	--	50
tert-Butylbenzene	ND	RL-05	ug/l	50	--	50
o-Chlorotoluene	ND	RL-05	ug/l	50	--	50
p-Chlorotoluene	ND	RL-05	ug/l	50	--	50
1,2-Dibromo-3-chloropropane	ND	RL-05	ug/l	100	--	50
Hexachlorobutadiene	ND	RL-05	ug/l	30	--	50
Isopropylbenzene	ND	RL-05	ug/l	50	--	50
p-Isopropyltoluene	ND	RL-05	ug/l	50	--	50
Naphthalene	ND	RL-05	ug/l	100	--	50
n-Propylbenzene	ND	RL-05	ug/l	50	--	50
1,2,3-Trichlorobenzene	ND	RL-05	ug/l	100	--	50

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-10 Date Collected: 11/10/25 13:15

Client ID: 045163-MW203R Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trichlorobenzene	ND	RL-05	ug/l	50	--	50
1,3,5-Trimethylbenzene	ND	RL-05	ug/l	50	--	50
1,2,4-Trimethylbenzene	ND	RL-05	ug/l	50	--	50
Diethyl Ether	ND	RL-05	ug/l	100	--	50
Diisopropyl Ether	ND	RL-05	ug/l	25	--	50
Tert-Butyl Ethyl Ether	ND	RL-05	ug/l	25	--	50
Tert-Amyl Methyl Ether	ND	RL-05	ug/l	25	--	50
1,4-Dioxane	ND	RL-05	ug/l	2500	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103	RL-05	70-130
Toluene-d8	95	RL-05	70-130
4-Bromofluorobenzene	100	RL-05	70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571243
Report Date: 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-11
Client ID: 045163-MW118T
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/10/25 14:10
Date Received: 11/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 04:30
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	7.4		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND	V-05	ug/l	2.0	--	1
Bromomethane	ND	L-04, V-05	ug/l	2.0	--	1
Vinyl chloride	ND	V-05	ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-11 Date Collected: 11/10/25 14:10

Client ID: 045163-MW118T Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND	V-05	ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	1.0		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571243

Project Number: 045163 **Report Date:** 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-11 Date Collected: 11/10/25 14:10

Client ID: 045163-MW118T Date Received: 11/10/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	102		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571243
Report Date: 11/19/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/13/25 21:43
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 01-11 Batch: WG2143377-1					
Methylene chloride	ND		ug/l	5.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	2.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Chlorodibromomethane	ND		ug/l	0.50	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.40	--
cis-1,3-Dichloropropene	ND		ug/l	0.40	--
1,1-Dichloropropene	ND		ug/l	0.50	--
Bromoform	ND		ug/l	1.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--
Benzene	ND		ug/l	1.0	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND	V-05	ug/l	2.0	--
Bromomethane	ND	L-04, V-05	ug/l	2.0	--
Vinyl chloride	ND	V-05	ug/l	2.0	--

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571243
Report Date: 11/19/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/13/25 21:43
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 01-11 Batch: WG2143377-1					
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert-butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	1.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND	V-05	ug/l	10	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	10	--
4-Methyl-2-pentanone	ND		ug/l	10	--
2-Hexanone	ND		ug/l	10	--
Bromochloromethane	ND		ug/l	1.0	--
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	1.0	--
1,2-Dibromoethane	ND		ug/l	0.50	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571243
Report Date: 11/19/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/13/25 21:43
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 01-11 Batch: WG2143377-1					
1,3-Dichloropropane	ND		ug/l	0.50	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	1.0	--
n-Butylbenzene	ND		ug/l	1.0	--
sec-Butylbenzene	ND		ug/l	1.0	--
tert-Butylbenzene	ND		ug/l	1.0	--
o-Chlorotoluene	ND		ug/l	1.0	--
p-Chlorotoluene	ND		ug/l	1.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	1.0	--
p-Isopropyltoluene	ND		ug/l	1.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	1.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--
Diethyl Ether	ND		ug/l	2.0	--
Diisopropyl Ether	ND		ug/l	0.50	--
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--
1,4-Dioxane	ND		ug/l	50	--

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571243
Report Date: 11/19/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/13/25 21:43
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 01-11 Batch: WG2143377-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571243
Report Date: 11/19/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 117,RSK-175
Analytical Date: 11/12/25 10:55
Analyst: TPH

Extraction Method: RSK175
Extraction Date: 11/12/25 10:55

Parameter	Result	Qualifier	Units	RL	MDL
Dissolved Gases by GC - East Longmeadow Lab for sample(s): 02 Batch: WG2143378-1					
Methane	ND		mg/l	0.0026	--
Ethene	ND		mg/l	0.0065	--
Ethane	ND		mg/l	0.0052	--

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571243
Report Date: 11/19/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-11 Batch: WG2143377-2 WG2143377-3								
Methylene chloride	88		85		70-130	3.12		20
1,1-Dichloroethane	89		87		70-130	2.15		20
Chloroform	103		97		70-130	6.42		20
Carbon tetrachloride	107		103		70-130	4.29		20
1,2-Dichloropropane	85		85		70-130	0.236		20
Chlorodibromomethane	102		100		70-130	2.48		20
1,1,2-Trichloroethane	105		102		70-130	3.10		20
Tetrachloroethene	103		97		70-130	5.70		20
Chlorobenzene	117	V-20	107	V-20	70-130	9.00		20
Trichlorofluoromethane	110		108		70-130	1.83		20
1,2-Dichloroethane	93		85		70-130	9.00		20
1,1,1-Trichloroethane	104		102		70-130	2.43		20
Bromodichloromethane	104		94		70-130	9.61		20
trans-1,3-Dichloropropene	101		95		70-130	5.80		20
cis-1,3-Dichloropropene	98		94		70-130	4.79		20
1,1-Dichloropropene	102		96		70-130	5.15		20
Bromoform	111		103		70-130	7.37		20
1,1,2,2-Tetrachloroethane	116		106		70-130	8.66		20
Benzene	98		93		70-130	5.34		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571243
Report Date: 11/19/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-11 Batch: WG2143377-2 WG2143377-3								
Toluene	103		98		70-130	5.16		20
Ethylbenzene	114		107		70-130	6.96		20
Chloromethane	65	L-14, V-05	62	L-14, V-05	40-160	4.42		20
Bromomethane	**30**	L-04, V-05	**28**	L-04, V-05	40-160	7.20		20
Vinyl chloride	74	V-05	72	V-05	70-130	2.72		20
Chloroethane	81		83		70-130	1.71		20
1,1-Dichloroethene	90		86		70-130	4.78		20
trans-1,2-Dichloroethene	90		86		70-130	3.98		20
Trichloroethene	108		100		70-130	7.11		20
1,2-Dichlorobenzene	112		104		70-130	7.37		20
1,3-Dichlorobenzene	109		100		70-130	8.50		20
1,4-Dichlorobenzene	108		104		70-130	4.16		20
Methyl tert-butyl ether	95		89		70-130	6.61		20
p/m-Xylene	117	V-20	111	V-20	70-130	5.88		20
o-Xylene	122	V-20	114	V-20	70-130	6.45		20
cis-1,2-Dichloroethene	90		90		70-130	0.557		20
Dibromomethane	108		101		70-130	6.61		20
1,2,3-Trichloropropane	117		112		70-130	3.76		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571243
Report Date: 11/19/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-11 Batch: WG2143377-2 WG2143377-3								
Styrene	109		101		70-130	7.33		20
Dichlorodifluoromethane	102		86		40-160	17.3		20
Acetone	77	V-05	78	V-05	40-160	0.772		20
Carbon disulfide	89		87		70-130	1.78		20
2-Butanone	81		83		40-160	2.23		20
4-Methyl-2-pentanone	100		93		40-160	6.88		20
2-Hexanone	95		92		40-160	3.18		20
Bromochloromethane	92		92		70-130	0.652		20
Tetrahydrofuran	76		74		70-130	2.66		20
2,2-Dichloropropane	99		91		70-130	8.29		20
1,2-Dibromoethane	105		104		70-130	0.862		20
1,3-Dichloropropane	109		98		70-130	11.1		20
1,1,1,2-Tetrachloroethane	110		109		70-130	1.18		20
Bromobenzene	112		103		70-130	8.93		20
n-Butylbenzene	111		104		70-130	6.69		20
sec-Butylbenzene	111		104		70-130	6.80		20
tert-Butylbenzene	109		99		70-130	9.23		20
o-Chlorotoluene	114		105		70-130	8.21		20
p-Chlorotoluene	115	V-20	108	V-20	70-130	6.82		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571243
Report Date: 11/19/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-11 Batch: WG2143377-2 WG2143377-3								
1,2-Dibromo-3-chloropropane	112		104		70-130	7.58		20
Hexachlorobutadiene	104		102		70-130	2.03		20
Isopropylbenzene	110		105		70-130	5.11		20
p-Isopropyltoluene	102		96		70-130	6.14		20
Naphthalene	88		84		70-130	4.53		20
n-Propylbenzene	116		108		70-130	7.05		20
1,2,3-Trichlorobenzene	94		86		70-130	9.24		20
1,2,4-Trichlorobenzene	92		89		70-130	2.43		20
1,3,5-Trimethylbenzene	111		103		70-130	7.01		20
1,2,4-Trimethylbenzene	109		96		70-130	13.2		20
Diethyl Ether	76		74		70-130	2.00		20
Diisopropyl Ether	89		86		70-130	3.55		20
Tert-Butyl Ethyl Ether	85		82		70-130	3.96		20
Tert-Amyl Methyl Ether	92		85		70-130	8.12		20
1,4-Dioxane	98		82		40-160	18.1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571243
Report Date: 11/19/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-11 Batch: WG2143377-2 WG2143377-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		98		70-130
Toluene-d8	96		95		70-130
4-Bromofluorobenzene	102		103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571243
Report Date: 11/19/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Gases by GC - East Longmeadow Lab Associated sample(s): 02 Batch: WG2143378-2								
Methane	84		-		73.2-114	-		
Ethene	82		-		67.6-116	-		
Ethane	86		-		73.1-116	-		

METALS

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571243
Report Date: 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-02
Client ID: 045163-MW104R
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/10/25 10:30
Date Received: 11/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Manganese, Total	ND		mg/l	0.0100	--	1	11/12/25 16:24	11/16/25 14:41	EPA 3005A	97,6010D	MRP

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571243
Report Date: 11/19/25

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 02 Batch: WG2140777-1										
Manganese, Total	ND		mg/l	0.0100	--	1	11/12/25 16:24	11/16/25 14:09	97,6010D	MRP

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571243
Report Date: 11/19/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG2140777-2 WG2140777-3								
Manganese, Total	97		98		80-120	1		20

INORGANICS
&
MISCELLANEOUS

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571243
Report Date: 11/19/25

SAMPLE RESULTS

Lab ID: L2571243-02
Client ID: 045163-MW104R
Sample Location: SOMERVILLE, MASSACHUSETTS
Sample Depth:
Matrix: Water

Date Collected: 11/10/25 10:30
Date Received: 11/10/25
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	150.		mg CaCO3/L	2.00	NA	1	-	11/16/25 13:17	121,2320B	MRW
Chlorine, Total Residual	ND		mg/l	0.02	--	1	11/11/25 08:30	11/11/25 08:43	121,4500CL-G	DMO
Chloride	350		mg/l	20	--	10	-	11/12/25 16:37	1,9251	JER
Nitrogen, Nitrate	2.81		mg/l	0.100	--	1	-	11/11/25 04:57	121,4500NO3-F	KAF
Nitrogen, Nitrate/Nitrite	2.8		mg/l	0.10	--	1	-	11/11/25 04:57	121,4500NO3-F	KAF
Total Nitrogen	2.8		mg/l	0.30	--	1	-	11/14/25 15:25	107,-	MRM
Nitrogen, Total Kjeldahl	ND		mg/l	0.300	--	1	11/11/25 08:00	11/12/25 12:34	121,4500NH3-H	KEM
Sulfate	190		mg/l	100	--	10	11/16/25 15:15	11/16/25 15:15	1,9038	MRW
Total Organic Carbon	1.2		mg/l	0.50	--	1	-	11/12/25 00:38	1,9060A	DEW
Surfactants, MBAS	ND		mg/l	0.050	--	1	11/12/25 07:15	11/12/25 09:08	121,5540C	CAR
Iron, Ferrous	ND		mg/l	0.50	--	1	-	11/11/25 00:33	121,3500FE-B	AAS
General Chemistry - East Longmeadow Lab										
Sulfide	ND		mg/l	2.0	--	1	11/13/25 15:22	11/13/25 15:22	146,4500S2-F	EDS

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571243
Report Date: 11/19/25

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG2139772-1										
Iron, Ferrous	ND		mg/l	0.50	--	1	-	11/11/25 00:31	121,3500FE-B	AAS
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG2139820-1										
Nitrogen, Nitrate	ND		mg/l	0.100	--	1	-	11/11/25 04:38	121,4500NO3-F	KAF
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG2139823-1										
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	--	1	-	11/11/25 04:42	121,4500NO3-F	KAF
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG2139933-1										
Chlorine, Total Residual	ND		mg/l	0.02	--	1	11/11/25 08:30	11/11/25 08:41	121,4500CL-G	DMO
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG2139969-1										
Nitrogen, Total Kjeldahl	ND		mg/l	0.300	--	1	11/11/25 08:00	11/12/25 11:41	121,4500NH3-H	KEM
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG2140372-1										
Total Organic Carbon	ND		mg/l	0.50	--	1	-	11/12/25 00:38	1,9060A	DEW
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG2140557-1										
Surfactants, MBAS	ND		mg/l	0.050	--	1	11/12/25 07:15	11/12/25 09:06	121,5540C	CAR
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG2140678-1										
Chloride	ND		mg/l	2.0	--	1	-	11/12/25 13:51	1,9251	JER
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG2142281-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	11/16/25 12:39	121,2320B	MRW
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG2142318-1										
Sulfate	ND		mg/l	10	--	1	11/16/25 15:15	11/16/25 15:15	1,9038	MRW
General Chemistry - East Longmeadow Lab for sample(s): 02 Batch: WG2143379-1										
Sulfide	ND		mg/l	2.0	--	1	11/13/25 15:22	11/13/25 15:22	146,4500S2-F	EDS

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571243
Report Date: 11/19/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG2139772-2								
Iron, Ferrous	105		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG2139820-2								
Nitrogen, Nitrate	101		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG2139823-2								
Nitrogen, Nitrate/Nitrite	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG2139933-2								
Chlorine, Total Residual	103		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG2139969-2								
Nitrogen, Total Kjeldahl	97		-		78-122	-		
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG2140372-2								
Total Organic Carbon	94		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG2140557-2								
Surfactants, MBAS	96		-		90-110	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571243
Report Date: 11/19/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG2140678-2								
Chloride	97		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG2142281-2								
Alkalinity, Total	102		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG2142318-2								
Sulfate	105		-		90-110	-		
General Chemistry - East Longmeadow Lab Associated sample(s): 02 Batch: WG2143379-2								
Sulfide	86		-		72.4-110	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571243
Report Date: 11/19/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG2139772-4 QC Sample: L2571243-02 Client ID: 045163-MW104R												
Iron, Ferrous	ND	1	1.1	108		-	-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG2139823-4 QC Sample: L2571243-02 Client ID: 045163-MW104R												
Nitrogen, Nitrate/Nitrite	2.8	4	6.4	90		-	-		80-120	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571243
Report Date: 11/19/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG2139772-3 QC Sample: L2571243-02 Client ID: 045163-MW104R						
Iron, Ferrous	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG2139823-3 QC Sample: L2571243-02 Client ID: 045163-MW104R						
Nitrogen, Nitrate/Nitrite	2.8	2.8	mg/l	0		20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG2139933-3 QC Sample: L2571243-02 Client ID: 045163-MW104R						
Chlorine, Total Residual	ND	ND	mg/l	NC		20

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571243
Report Date: 11/19/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2571243-01A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-01B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-01C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-02A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-02B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-02C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-02D	Vial H2SO4 preserved	NA	NA			Y	Absent		TOC-9060(28)
L2571243-02E	Vial H2SO4 preserved	NA	NA			Y	Absent		TOC-9060(28)
L2571243-02F	20ml Vial HCl preserved	NA	NA			Y	Absent		A3-DISSGAS(14)
L2571243-02G	20ml Vial HCl preserved	NA	NA			Y	Absent		A3-DISSGAS(14)
L2571243-02H	20ml Vial HCl preserved	NA	NA			Y	Absent		A3-DISSGAS(14)
L2571243-02I	Plastic 250ml unpreserved/No Headspace	NA	NA			Y	Absent		ALK-T-2320(14)
L2571243-02J	Plastic 250ml HNO3 preserved	NA	<2	<2		Y	Absent		MCP-MN-6010T-10(180)
L2571243-02K	Plastic 250ml H2SO4 preserved	NA	<2	<2		Y	Absent		TKN-4500(28),NO3/NO2-4500(28),TNITROGEN(28)
L2571243-02L	Plastic 250ml Zn Acetate/NaOH preserved	NA	>9	>9		Y	Absent		A3-SULFIDE-4500(7)
L2571243-02M	Plastic 250ml Zn Acetate/NaOH preserved	NA	>9	>9		Y	Absent		A3-SULFIDE-4500(7)
L2571243-02N	Plastic 950ml unpreserved	NA	NA			Y	Absent		CL-9251(28),SO4-9038(28),NO3-4500(2),MBAS-5540(2),FERROUS(1)
L2571243-02O	Plastic 950ml unpreserved	NA	NA			Y	Absent		TRC-4500-G(1)
L2571243-03A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-03B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-03C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-04A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)

*Values in parentheses indicate holding time in days

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571243
Report Date: 11/19/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2571243-04B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-04C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-05A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-05B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-05C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-06A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-06B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-06C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-07A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-07B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-07C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-08A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-08B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-08C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-09A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-09B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-09C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-10A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-10B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-10C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-11A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-11B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571243-11C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)

*Values in parentheses indicate holding time in days

Project Name:	50 TUFTS STREET	**Lab Number:**	L2571243
Project Number:	045163	**Report Date:**	11/19/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	50 TUFTS STREET	**Lab Number:**	L2571243
Project Number:	045163	**Report Date:**	11/19/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	50 TUFTS STREET	**Lab Number:**	L2571243
Project Number:	045163	**Report Date:**	11/19/25

Data Qualifiers

ND	- Not detected at the reporting limit (RL) for the sample.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
S	- Analytical results are from modified screening analysis.
V	- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
Z	- The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
L-04	- Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-14	- Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
RL-05	- Elevated reporting limit due to high concentration of target compounds. MA CAM reporting limit not met.
RL-07	- Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
V-05	- Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	- Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Report Format: Data Usability Report

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571243
Report Date: 11/19/25

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSCCAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010; WSC-CAM-IIIA and IIID, January 2024; WSC-CAM-IIIB and VA, February 2024; WSC-CAM-VB and VC, April 2024; and WSC-CAM-VIA, VIB, IXA, and IXB, October 2024.

107 Calculation method.

117 Technical Guidance for the Natural Attenuation Indicators: Methane, Ethane, and Ethene, EPA-NE, Revision 1, February 21, 2002 and Sample Preparation & Calculations for Dissolved Gas Analysis in Water Samples using a GC Headspace Equilibration Technique, EPA RSKSOP-175, Revision 2, May 2004.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

141 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA and IIB, November 2021.

146 APHA Standard Methods for the Examination of Water and Wastewater, 21st/22nd/23rd/24th edition, 2005/2012/2017/2023.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY kY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
MA M-MA00030, CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

Chain-of-Custody Record

Laboratory: Pace

Laboratory Job # (Lab use only) L2571243

GEI Consultants
400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000

Project Information

Project Name: 50 Tufts Street
Project Location: Somerville, MA
Project Number: 045163
Project Manager: Chris Coner

Page 1 of 1

Send Report to: cconer@geiconsultants.com
labdata@geiconsultants.com

Preservative

DI/HCl

Sample Handling

Samples Field Filtered: YES (NO) NA

Sampled Shipped With Ice: YES (NO)

MCP PRESUMPTIVE CERTAINTY AND MCP ANALYTICAL METHODS REQUIRED: (YES) NO

STATE AND FEDERAL REGULATORY REQUIREMENTS/REPORT LIMITS

State/Federal Program: (MA) 401WQC Other _____ NH RI CT NY ME

MA MCP Criteria are Method 1 S-1 and GW-2/GW-3. Circle if GW-1 is required.

Analysis

Lab Sample Number	GEI Sample ID	Collection Date	Collection Time	Matrix	No. of Bottles	Sampler(s) Initials	VOC 8260	MNA Parameters	Sample Specific Remarks
71243 01	045163-MW117S	11/10/25	1015	GW	3	CMG	X		
02	045163-MW104R		1030	GW	15	NMT	X	X	
03	045163-MW117D		1040	GW	3	CMG	X		
04	045163-MW406		1100	GW	3	JWG	X		
05	045163-MW117T		1125	GW	3	CMG	X		
06	045163-MW403		1155	GW	3	NMT	X		
07	045163-MW405		1240	GW	3	CMG	X		
08	045163-MW118S		1245	GW	3	JWG	X		
09	045163-MW118D		1305	GW	3	JWG	X		
10	045163-MW203R		1315	GW	3	NMT	X		
11	045163-MW118T	↓	1410	GW	3	JWG	X		

	Relinquished by sampler: (signature)	Date	Time	Received by: (signature)
1.	C McCallum Grau	11/10/25	1420	Pace
2.		11/10/25	1650	
3.				
4.				
5.				

Turnaround Time (Business days):

5-Day __X__ 4-Day ____ 3-Day ____
2-Day ____ 1-Day ____ Other ____

Before submitting rush turnaround samples, you **must** notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

See attached sheet for MNA Parameters

Sample Matrix Abbreviations: SO = Soil GW = Groundwater SW = Surface Water SD = Sediment CO = Concrete PC = Paint Chip CLK = Caulk

Sample Delivery Group Summary

Pace Job Number : L2571243

Account Name : GEI Consultants
Project Number : 045163
Project Name : 50 TUFTS STREET

Received : 10-NOV-2025
Reviewer : Julie Convery

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	3.8	

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**NA**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NO**

ANALYTICAL REPORT

Lab Number:	L2571553
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	50 TUFTS STREET
Project Number:	045163
Report Date:	11/20/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571553
Report Date: 11/20/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2571553-01	045163-MW121D	WATER	SOMERVILLE, MASSACHUSETTS	11/11/25 08:20	11/11/25
L2571553-02	045163-MW119T	WATER	SOMERVILLE, MASSACHUSETTS	11/11/25 08:30	11/11/25
L2571553-03	045163-MW121S	WATER	SOMERVILLE, MASSACHUSETTS	11/11/25 09:15	11/11/25
L2571553-04	045163-MW116	WATER	SOMERVILLE, MASSACHUSETTS	11/11/25 09:20	11/11/25
L2571553-05	045163-MW102	WATER	SOMERVILLE, MASSACHUSETTS	11/11/25 10:35	11/11/25
L2571553-06	045163-MW119S	WATER	SOMERVILLE, MASSACHUSETTS	11/11/25 10:10	11/11/25
L2571553-07	045163-MW112A	WATER	SOMERVILLE, MASSACHUSETTS	11/11/25 11:00	11/11/25
L2571553-08	045163-MW120S	WATER	SOMERVILLE, MASSACHUSETTS	11/11/25 11:35	11/11/25
L2571553-09	045163-MW103	WATER	SOMERVILLE, MASSACHUSETTS	11/11/25 11:40	11/11/25
L2571553-10	045163-MW900	WATER	SOMERVILLE, MASSACHUSETTS	11/11/25 12:00	11/11/25
L2571553-11	045163-MW901	WATER	SOMERVILLE, MASSACHUSETTS	11/11/25 12:05	11/11/25
L2571553-12	045163-GEO-2	WATER	SOMERVILLE, MASSACHUSETTS	11/11/25 12:55	11/11/25
L2571553-13	045163-MW120D	WATER	SOMERVILLE, MASSACHUSETTS	11/11/25 13:10	11/11/25
L2571553-14	045163-MW301	WATER	SOMERVILLE, MASSACHUSETTS	11/11/25 13:35	11/11/25
L2571553-15	045163-MW402	WATER	SOMERVILLE, MASSACHUSETTS	11/11/25 13:50	11/11/25

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E 1.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E 2.	PFAS Only: Were aqueous samples extracted without filtering?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits/lower limits of quantitation at or below all CAM reporting limits/lower limits of quantitation specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	50 TUFTS STREET	**Lab Number:**	L2571553
Project Number:	045163	**Report Date:**	11/20/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571553
Report Date: 11/20/25

Case Narrative (continued)

MCP Related Narratives

Total Metals

In reference to question I:

All samples were analyzed for a subset of MCP analytes per client request.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly O'Neill

Title: Technical Director/Representative

Date: 11/20/25

QC OUTLIER SUMMARY REPORT

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571553
Report Date: 11/20/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
MCP Volatile Organics by GC/MS - East Longmeadow Lab								
8260D	Batch QC	WG2144480-2	Bromomethane	LCS	30	40-160	01-05	potential low bias
8260D	Batch QC	WG2144480-3	Bromomethane	LCSD	28	40-160	01-05	potential low bias
8260D	Batch QC	WG2144481-3	1,2-Dibromo-3-chloropropane	LCSD	24.1	70-130	06-15	non-directional bias

ORGANICS

VOLATILES

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-01
Client ID: 045163-MW121D
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/11/25 08:20
Date Received: 11/11/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 02:49
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	4.6		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	2.1		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND	V-05	ug/l	2.0	--	1
Bromomethane	ND	L-04, V-05	ug/l	2.0	--	1
Vinyl chloride	ND	V-05	ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	1.0		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-01 Date Collected: 11/11/25 08:20

Client ID: 045163-MW121D Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Trichloroethene	4.1		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	3.9		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND	V-05	ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-01 Date Collected: 11/11/25 08:20

Client ID: 045163-MW121D Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	101		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-02
Client ID: 045163-MW119T
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/11/25 08:30
Date Received: 11/11/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 03:14
Analyst: EEH
Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	1.7		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND	V-05	ug/l	2.0	--	1
Bromomethane	ND	L-04, V-05	ug/l	2.0	--	1
Vinyl chloride	ND	V-05	ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-02 Date Collected: 11/11/25 08:30

Client ID: 045163-MW119T Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Trichloroethene	1.3		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND	V-05	ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-02 Date Collected: 11/11/25 08:30

Client ID: 045163-MW119T Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	102		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-03
Client ID: 045163-MW121S
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/11/25 09:15
Date Received: 11/11/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 03:39
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND	V-05	ug/l	2.0	--	1
Bromomethane	ND	L-04, V-05	ug/l	2.0	--	1
Vinyl chloride	ND	V-05	ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-03 Date Collected: 11/11/25 09:15

Client ID: 045163-MW121S Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND	V-05	ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-03 Date Collected: 11/11/25 09:15

Client ID: 045163-MW121S Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-04
Client ID: 045163-MW116
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/11/25 09:20
Date Received: 11/11/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 04:56
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	18		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	130		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	1.7		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND	V-05	ug/l	2.0	--	1
Bromomethane	ND	L-04, V-05	ug/l	2.0	--	1
Vinyl chloride	16	V-05	ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	13		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-04 Date Collected: 11/11/25 09:20

Client ID: 045163-MW116 Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Trichloroethene	40		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	1.6		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	57		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND	V-05	ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-04 Date Collected: 11/11/25 09:20

Client ID: 045163-MW116 Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	104		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-05
Client ID: 045163-MW102
Sample Location: SOMERVILLE, MASSACHUSETTS

Date Collected: 11/11/25 10:35
Date Received: 11/11/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 04:05
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	35		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND	V-05	ug/l	2.0	--	1
Bromomethane	ND	L-04, V-05	ug/l	2.0	--	1
Vinyl chloride	ND	V-05	ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-05 Date Collected: 11/11/25 10:35

Client ID: 045163-MW102 Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Trichloroethene	3.3		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND	V-05	ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-05 Date Collected: 11/11/25 10:35

Client ID: 045163-MW102 Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	102		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-06
Client ID: 045163-MW119S
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/11/25 10:10
Date Received: 11/11/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/13/25 17:40
Analyst: EEH
Extraction Method: EPA 5030B
Extraction Date: 11/12/25 14:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-06 Date Collected: 11/11/25 10:10

Client ID: 045163-MW119S Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND	R-05	ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-06 Date Collected: 11/11/25 10:10

Client ID: 045163-MW119S Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	92		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-07
Client ID: 045163-MW112A
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/11/25 11:00
Date Received: 11/11/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 117,RSK-175
Analytical Date: 11/12/25 12:18
Analyst: TPH
Extraction Method: RSK175
Extraction Date: 11/12/25 12:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Dissolved Gases by GC - East Longmeadow Lab						
Methane	0.013		mg/l	0.0026	--	1
Ethene	ND		mg/l	0.0065	--	1
Ethane	ND		mg/l	0.0052	--	1

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-07
Client ID: 045163-MW112A
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/11/25 11:00
Date Received: 11/11/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/13/25 21:12
Analyst: EEH
Extraction Method: EPA 5030B
Extraction Date: 11/12/25 14:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-05	ug/l	20	--	4
1,1-Dichloroethane	27	RL-05	ug/l	4.0	--	4
Chloroform	ND	RL-05	ug/l	8.0	--	4
Carbon tetrachloride	ND	RL-05	ug/l	4.0	--	4
1,2-Dichloropropane	ND	RL-05	ug/l	4.0	--	4
Chlorodibromomethane	ND	RL-05	ug/l	2.0	--	4
1,1,2-Trichloroethane	ND	RL-05	ug/l	4.0	--	4
Tetrachloroethene	400	RL-05	ug/l	4.0	--	4
Chlorobenzene	ND	RL-05	ug/l	4.0	--	4
Trichlorofluoromethane	ND	RL-05	ug/l	8.0	--	4
1,2-Dichloroethane	ND	RL-05	ug/l	4.0	--	4
1,1,1-Trichloroethane	4.2	RL-05	ug/l	4.0	--	4
Bromodichloromethane	ND	RL-05	ug/l	4.0	--	4
trans-1,3-Dichloropropene	ND	RL-05	ug/l	1.6	--	4
cis-1,3-Dichloropropene	ND	RL-05	ug/l	1.6	--	4
1,1-Dichloropropene	ND	RL-05	ug/l	2.0	--	4
Bromoform	ND	RL-05	ug/l	4.0	--	4
1,1,2,2-Tetrachloroethane	ND	RL-05	ug/l	2.0	--	4
Benzene	ND	RL-05	ug/l	4.0	--	4
Toluene	ND	RL-05	ug/l	4.0	--	4
Ethylbenzene	ND	RL-05	ug/l	4.0	--	4
Chloromethane	ND	RL-05	ug/l	8.0	--	4
Bromomethane	ND	RL-05	ug/l	8.0	--	4
Vinyl chloride	19	RL-05	ug/l	8.0	--	4
Chloroethane	ND	RL-05	ug/l	8.0	--	4
1,1-Dichloroethene	47	RL-05	ug/l	4.0	--	4
trans-1,2-Dichloroethene	ND	RL-05	ug/l	4.0	--	4
Trichloroethene	98	RL-05	ug/l	4.0	--	4

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-07 Date Collected: 11/11/25 11:00

Client ID: 045163-MW112A Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND	RL-05	ug/l	4.0	--	4
1,3-Dichlorobenzene	ND	RL-05	ug/l	4.0	--	4
1,4-Dichlorobenzene	ND	RL-05	ug/l	4.0	--	4
Methyl tert-butyl ether	8.2	RL-05	ug/l	4.0	--	4
p/m-Xylene	ND	RL-05	ug/l	8.0	--	4
o-Xylene	ND	RL-05	ug/l	4.0	--	4
cis-1,2-Dichloroethene	130	RL-05	ug/l	4.0	--	4
Dibromomethane	ND	RL-05	ug/l	4.0	--	4
1,2,3-Trichloropropane	ND	RL-05	ug/l	8.0	--	4
Styrene	ND	RL-05	ug/l	4.0	--	4
Dichlorodifluoromethane	ND	RL-05	ug/l	8.0	--	4
Acetone	ND	RL-05	ug/l	40	--	4
Carbon disulfide	ND	RL-05	ug/l	20	--	4
2-Butanone	ND	RL-05	ug/l	40	--	4
4-Methyl-2-pentanone	ND	RL-05	ug/l	40	--	4
2-Hexanone	ND	RL-05	ug/l	40	--	4
Bromochloromethane	ND	RL-05	ug/l	4.0	--	4
Tetrahydrofuran	ND	RL-05	ug/l	8.0	--	4
2,2-Dichloropropane	ND	RL-05	ug/l	4.0	--	4
1,2-Dibromoethane	ND	RL-05	ug/l	2.0	--	4
1,3-Dichloropropane	ND	RL-05	ug/l	2.0	--	4
1,1,1,2-Tetrachloroethane	ND	RL-05	ug/l	4.0	--	4
Bromobenzene	ND	RL-05	ug/l	4.0	--	4
n-Butylbenzene	ND	RL-05	ug/l	4.0	--	4
sec-Butylbenzene	ND	RL-05	ug/l	4.0	--	4
tert-Butylbenzene	ND	RL-05	ug/l	4.0	--	4
o-Chlorotoluene	ND	RL-05	ug/l	4.0	--	4
p-Chlorotoluene	ND	RL-05	ug/l	4.0	--	4
1,2-Dibromo-3-chloropropane	ND	R-05, RL-05	ug/l	8.0	--	4
Hexachlorobutadiene	ND	RL-05	ug/l	2.4	--	4
Isopropylbenzene	ND	RL-05	ug/l	4.0	--	4
p-Isopropyltoluene	ND	RL-05	ug/l	4.0	--	4
Naphthalene	ND	RL-05	ug/l	8.0	--	4
n-Propylbenzene	ND	RL-05	ug/l	4.0	--	4
1,2,3-Trichlorobenzene	ND	RL-05	ug/l	8.0	--	4
1,2,4-Trichlorobenzene	ND	RL-05	ug/l	4.0	--	4
1,3,5-Trimethylbenzene	ND	RL-05	ug/l	4.0	--	4

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-07 Date Collected: 11/11/25 11:00

Client ID: 045163-MW112A Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND	RL-05	ug/l	4.0	--	4
Diethyl Ether	ND	RL-05	ug/l	8.0	--	4
Diisopropyl Ether	ND	RL-05	ug/l	2.0	--	4
Tert-Butyl Ethyl Ether	ND	RL-05	ug/l	2.0	--	4
Tert-Amyl Methyl Ether	ND	RL-05	ug/l	2.0	--	4
1,4-Dioxane	ND	RL-05	ug/l	200	--	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99	RL-05	70-130
Toluene-d8	100	RL-05	70-130
4-Bromofluorobenzene	90	RL-05	70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-08
Client ID: 045163-MW120S
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/11/25 11:35
Date Received: 11/11/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/13/25 18:06
Analyst: EEH
Extraction Method: EPA 5030B
Extraction Date: 11/12/25 14:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-08 Date Collected: 11/11/25 11:35

Client ID: 045163-MW120S Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND	R-05	ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-08 Date Collected: 11/11/25 11:35

Client ID: 045163-MW120S Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	94		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-09
Client ID: 045163-MW103
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/11/25 11:40
Date Received: 11/11/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/13/25 19:26
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 14:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	53		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	5.5		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-09 Date Collected: 11/11/25 11:40

Client ID: 045163-MW103 Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	1.0		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND	R-05	ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-09 Date Collected: 11/11/25 11:40

Client ID: 045163-MW103 Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	93		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-10
Client ID: 045163-MW900
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/11/25 12:00
Date Received: 11/11/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/13/25 20:46
Analyst: EEH
Extraction Method: EPA 5030B
Extraction Date: 11/12/25 14:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	22		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	140		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	1.8		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	20		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	12		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	39		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-10 Date Collected: 11/11/25 12:00

Client ID: 045163-MW900 Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	1.8		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	60		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND	R-05	ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-10 Date Collected: 11/11/25 12:00

Client ID: 045163-MW900 Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-11
Client ID: 045163-MW901
Sample Location: SOMERVILLE, MASSACHUSETTS

Date Collected: 11/11/25 12:05
Date Received: 11/11/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/13/25 19:52
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 14:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	69		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	6.9		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	1.6		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	8.0		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-11 Date Collected: 11/11/25 12:05

Client ID: 045163-MW901 Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	3.5		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND	R-05	ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-11 Date Collected: 11/11/25 12:05

Client ID: 045163-MW901 Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-12
Client ID: 045163-GEO-2
Sample Location: SOMERVILLE, MASSACHUSETTS

Date Collected: 11/11/25 12:55
Date Received: 11/11/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 117,RSK-175
Analytical Date: 11/12/25 12:26
Analyst: TPH

Extraction Method: RSK175
Extraction Date: 11/12/25 12:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Dissolved Gases by GC - East Longmeadow Lab						
Methane	ND		mg/l	0.0026	--	1
Ethene	ND		mg/l	0.0065	--	1
Ethane	ND		mg/l	0.0052	--	1

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-12
Client ID: 045163-GEO-2
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/11/25 12:55
Date Received: 11/11/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/13/25 20:19
Analyst: EEH
Extraction Method: EPA 5030B
Extraction Date: 11/12/25 14:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	69		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	7.1		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	1.5		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	7.8		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-12 Date Collected: 11/11/25 12:55

Client ID: 045163-GEO-2 Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	3.8		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND	R-05	ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-12 Date Collected: 11/11/25 12:55

Client ID: 045163-GEO-2 Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	91		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-13
Client ID: 045163-MW120D
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/11/25 13:10
Date Received: 11/11/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/13/25 18:33
Analyst: EEH
Extraction Method: EPA 5030B
Extraction Date: 11/12/25 14:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	8.2		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	31		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	8.3		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	13		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-13 Date Collected: 11/11/25 13:10

Client ID: 045163-MW120D Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND	R-05	ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-13 Date Collected: 11/11/25 13:10

Client ID: 045163-MW120D Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	93		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-14
Client ID: 045163-MW301
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/11/25 13:35
Date Received: 11/11/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/13/25 18:59
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 14:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-14 Date Collected: 11/11/25 13:35

Client ID: 045163-MW301 Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND	R-05	ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-14 Date Collected: 11/11/25 13:35

Client ID: 045163-MW301 Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	91		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-15
Client ID: 045163-MW402
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/11/25 13:50
Date Received: 11/11/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/13/25 21:39
Analyst: EEH
Extraction Method: EPA 5030B
Extraction Date: 11/12/25 14:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-05	ug/l	10	--	2
1,1-Dichloroethane	5.6	RL-05	ug/l	2.0	--	2
Chloroform	ND	RL-05	ug/l	4.0	--	2
Carbon tetrachloride	ND	RL-05	ug/l	2.0	--	2
1,2-Dichloropropane	ND	RL-05	ug/l	2.0	--	2
Chlorodibromomethane	ND	RL-05	ug/l	1.0	--	2
1,1,2-Trichloroethane	ND	RL-05	ug/l	2.0	--	2
Tetrachloroethene	290	RL-05	ug/l	2.0	--	2
Chlorobenzene	ND	RL-05	ug/l	2.0	--	2
Trichlorofluoromethane	ND	RL-05	ug/l	4.0	--	2
1,2-Dichloroethane	ND	RL-05	ug/l	2.0	--	2
1,1,1-Trichloroethane	ND	RL-05	ug/l	2.0	--	2
Bromodichloromethane	ND	RL-05	ug/l	2.0	--	2
trans-1,3-Dichloropropene	ND	RL-05	ug/l	0.80	--	2
cis-1,3-Dichloropropene	ND	RL-05	ug/l	0.80	--	2
1,1-Dichloropropene	ND	RL-05	ug/l	1.0	--	2
Bromoform	ND	RL-05	ug/l	2.0	--	2
1,1,2,2-Tetrachloroethane	ND	RL-05	ug/l	1.0	--	2
Benzene	ND	RL-05	ug/l	2.0	--	2
Toluene	ND	RL-05	ug/l	2.0	--	2
Ethylbenzene	ND	RL-05	ug/l	2.0	--	2
Chloromethane	ND	RL-05	ug/l	4.0	--	2
Bromomethane	ND	RL-05	ug/l	4.0	--	2
Vinyl chloride	ND	RL-05	ug/l	4.0	--	2
Chloroethane	ND	RL-05	ug/l	4.0	--	2
1,1-Dichloroethene	3.2	RL-05	ug/l	2.0	--	2
trans-1,2-Dichloroethene	ND	RL-05	ug/l	2.0	--	2
Trichloroethene	36	RL-05	ug/l	2.0	--	2

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-15 Date Collected: 11/11/25 13:50

Client ID: 045163-MW402 Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND	RL-05	ug/l	2.0	--	2
1,3-Dichlorobenzene	ND	RL-05	ug/l	2.0	--	2
1,4-Dichlorobenzene	ND	RL-05	ug/l	2.0	--	2
Methyl tert-butyl ether	ND	RL-05	ug/l	2.0	--	2
p/m-Xylene	ND	RL-05	ug/l	4.0	--	2
o-Xylene	ND	RL-05	ug/l	2.0	--	2
cis-1,2-Dichloroethene	ND	RL-05	ug/l	2.0	--	2
Dibromomethane	ND	RL-05	ug/l	2.0	--	2
1,2,3-Trichloropropane	ND	RL-05	ug/l	4.0	--	2
Styrene	ND	RL-05	ug/l	2.0	--	2
Dichlorodifluoromethane	ND	RL-05	ug/l	4.0	--	2
Acetone	ND	RL-05	ug/l	20	--	2
Carbon disulfide	ND	RL-05	ug/l	10	--	2
2-Butanone	ND	RL-05	ug/l	20	--	2
4-Methyl-2-pentanone	ND	RL-05	ug/l	20	--	2
2-Hexanone	ND	RL-05	ug/l	20	--	2
Bromochloromethane	ND	RL-05	ug/l	2.0	--	2
Tetrahydrofuran	ND	RL-05	ug/l	4.0	--	2
2,2-Dichloropropane	ND	RL-05	ug/l	2.0	--	2
1,2-Dibromoethane	ND	RL-05	ug/l	1.0	--	2
1,3-Dichloropropane	ND	RL-05	ug/l	1.0	--	2
1,1,1,2-Tetrachloroethane	ND	RL-05	ug/l	2.0	--	2
Bromobenzene	ND	RL-05	ug/l	2.0	--	2
n-Butylbenzene	ND	RL-05	ug/l	2.0	--	2
sec-Butylbenzene	ND	RL-05	ug/l	2.0	--	2
tert-Butylbenzene	ND	RL-05	ug/l	2.0	--	2
o-Chlorotoluene	ND	RL-05	ug/l	2.0	--	2
p-Chlorotoluene	ND	RL-05	ug/l	2.0	--	2
1,2-Dibromo-3-chloropropane	ND	R-05, RL-05	ug/l	4.0	--	2
Hexachlorobutadiene	ND	RL-05	ug/l	1.2	--	2
Isopropylbenzene	ND	RL-05	ug/l	2.0	--	2
p-Isopropyltoluene	ND	RL-05	ug/l	2.0	--	2
Naphthalene	ND	RL-05	ug/l	4.0	--	2
n-Propylbenzene	ND	RL-05	ug/l	2.0	--	2
1,2,3-Trichlorobenzene	ND	RL-05	ug/l	4.0	--	2
1,2,4-Trichlorobenzene	ND	RL-05	ug/l	2.0	--	2
1,3,5-Trimethylbenzene	ND	RL-05	ug/l	2.0	--	2

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-15 Date Collected: 11/11/25 13:50

Client ID: 045163-MW402 Date Received: 11/11/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND	RL-05	ug/l	2.0	--	2
Diethyl Ether	ND	RL-05	ug/l	4.0	--	2
Diisopropyl Ether	ND	RL-05	ug/l	1.0	--	2
Tert-Butyl Ethyl Ether	ND	RL-05	ug/l	1.0	--	2
Tert-Amyl Methyl Ether	ND	RL-05	ug/l	1.0	--	2
1,4-Dioxane	ND	RL-05	ug/l	100	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99	RL-05	70-130
Toluene-d8	99	RL-05	70-130
4-Bromofluorobenzene	89	RL-05	70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/13/25 21:43
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 01-05 Batch: WG2144480-1					
Methylene chloride	ND		ug/l	5.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	2.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Chlorodibromomethane	ND		ug/l	0.50	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.40	--
cis-1,3-Dichloropropene	ND		ug/l	0.40	--
1,1-Dichloropropene	ND		ug/l	0.50	--
Bromoform	ND		ug/l	1.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--
Benzene	ND		ug/l	1.0	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND	V-05	ug/l	2.0	--
Bromomethane	ND	L-04, V-05	ug/l	2.0	--
Vinyl chloride	ND	V-05	ug/l	2.0	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/13/25 21:43
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 01-05 Batch: WG2144480-1					
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert-butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	1.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND	V-05	ug/l	10	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	10	--
4-Methyl-2-pentanone	ND		ug/l	10	--
2-Hexanone	ND		ug/l	10	--
Bromochloromethane	ND		ug/l	1.0	--
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	1.0	--
1,2-Dibromoethane	ND		ug/l	0.50	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/13/25 21:43
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 01-05 Batch: WG2144480-1					
1,3-Dichloropropane	ND		ug/l	0.50	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	1.0	--
n-Butylbenzene	ND		ug/l	1.0	--
sec-Butylbenzene	ND		ug/l	1.0	--
tert-Butylbenzene	ND		ug/l	1.0	--
o-Chlorotoluene	ND		ug/l	1.0	--
p-Chlorotoluene	ND		ug/l	1.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	1.0	--
p-Isopropyltoluene	ND		ug/l	1.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	1.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--
Diethyl Ether	ND		ug/l	2.0	--
Diisopropyl Ether	ND		ug/l	0.50	--
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--
1,4-Dioxane	ND		ug/l	50	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/13/25 21:43
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 13:58

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 01-05 Batch: WG2144480-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/13/25 17:13
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 14:03

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 06-15 Batch: WG2144481-1					
Methylene chloride	ND		ug/l	5.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	2.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Chlorodibromomethane	ND		ug/l	0.50	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.40	--
cis-1,3-Dichloropropene	ND		ug/l	0.40	--
1,1-Dichloropropene	ND		ug/l	0.50	--
Bromoform	ND		ug/l	1.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--
Benzene	ND		ug/l	1.0	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	2.0	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/13/25 17:13
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 14:03

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 06-15 Batch: WG2144481-1					
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert-butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	1.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	10	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	10	--
4-Methyl-2-pentanone	ND		ug/l	10	--
2-Hexanone	ND		ug/l	10	--
Bromochloromethane	ND		ug/l	1.0	--
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	1.0	--
1,2-Dibromoethane	ND		ug/l	0.50	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/13/25 17:13
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 14:03

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 06-15 Batch: WG2144481-1					
1,3-Dichloropropane	ND		ug/l	0.50	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	1.0	--
n-Butylbenzene	ND		ug/l	1.0	--
sec-Butylbenzene	ND		ug/l	1.0	--
tert-Butylbenzene	ND		ug/l	1.0	--
o-Chlorotoluene	ND		ug/l	1.0	--
p-Chlorotoluene	ND		ug/l	1.0	--
1,2-Dibromo-3-chloropropane	ND	R-05	ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	1.0	--
p-Isopropyltoluene	ND		ug/l	1.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	1.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--
Diethyl Ether	ND		ug/l	2.0	--
Diisopropyl Ether	ND		ug/l	0.50	--
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--
1,4-Dioxane	ND		ug/l	50	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/13/25 17:13
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/12/25 14:03

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 06-15 Batch: WG2144481-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 117,RSK-175
Analytical Date: 11/12/25 10:55
Analyst: TPH

Extraction Method: RSK175
Extraction Date: 11/12/25 10:55

Parameter	Result	Qualifier	Units	RL	MDL
Dissolved Gases by GC - East Longmeadow Lab for sample(s): 07,12 Batch: WG2144482-1					
Methane	ND		mg/l	0.0026	--
Ethene	ND		mg/l	0.0065	--
Ethane	ND		mg/l	0.0052	--

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571553
Report Date: 11/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-05 Batch: WG2144480-2 WG2144480-3								
Methylene chloride	88		85		70-130	3.12		20
1,1-Dichloroethane	89		87		70-130	2.15		20
Chloroform	103		97		70-130	6.42		20
Carbon tetrachloride	107		103		70-130	4.29		20
1,2-Dichloropropane	85		85		70-130	0.236		20
Chlorodibromomethane	102		100		70-130	2.48		20
1,1,2-Trichloroethane	105		102		70-130	3.10		20
Tetrachloroethene	103		97		70-130	5.70		20
Chlorobenzene	117	V-20	107	V-20	70-130	9.00		20
Trichlorofluoromethane	110		108		70-130	1.83		20
1,2-Dichloroethane	93		85		70-130	9.00		20
1,1,1-Trichloroethane	104		102		70-130	2.43		20
Bromodichloromethane	104		94		70-130	9.61		20
trans-1,3-Dichloropropene	101		95		70-130	5.80		20
cis-1,3-Dichloropropene	98		94		70-130	4.79		20
1,1-Dichloropropene	102		96		70-130	5.15		20
Bromoform	111		103		70-130	7.37		20
1,1,2,2-Tetrachloroethane	116		106		70-130	8.66		20
Benzene	98		93		70-130	5.34		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571553
Report Date: 11/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-05 Batch: WG2144480-2 WG2144480-3								
Toluene	103		98		70-130	5.16		20
Ethylbenzene	114		107		70-130	6.96		20
Chloromethane	65	L-14, V-05	62	L-14, V-05	40-160	4.42		20
Bromomethane	**30**	L-04, V-05	**28**	L-04, V-05	40-160	7.20		20
Vinyl chloride	74	V-05	72	V-05	70-130	2.72		20
Chloroethane	81		83		70-130	1.71		20
1,1-Dichloroethene	90		86		70-130	4.78		20
trans-1,2-Dichloroethene	90		86		70-130	3.98		20
Trichloroethene	108		100		70-130	7.11		20
1,2-Dichlorobenzene	112		104		70-130	7.37		20
1,3-Dichlorobenzene	109		100		70-130	8.50		20
1,4-Dichlorobenzene	108		104		70-130	4.16		20
Methyl tert-butyl ether	95		89		70-130	6.61		20
p/m-Xylene	117	V-20	111	V-20	70-130	5.88		20
o-Xylene	122	V-20	114	V-20	70-130	6.45		20
cis-1,2-Dichloroethene	90		90		70-130	0.557		20
Dibromomethane	108		101		70-130	6.61		20
1,2,3-Trichloropropane	117		112		70-130	3.76		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571553
Report Date: 11/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-05 Batch: WG2144480-2 WG2144480-3								
Styrene	109		101		70-130	7.33		20
Dichlorodifluoromethane	102		86		40-160	17.3		20
Acetone	77	V-05	78	V-05	40-160	0.772		20
Carbon disulfide	89		87		70-130	1.78		20
2-Butanone	81		83		40-160	2.23		20
4-Methyl-2-pentanone	100		93		40-160	6.88		20
2-Hexanone	95		92		40-160	3.18		20
Bromochloromethane	92		92		70-130	0.652		20
Tetrahydrofuran	76		74		70-130	2.66		20
2,2-Dichloropropane	99		91		70-130	8.29		20
1,2-Dibromoethane	105		104		70-130	0.862		20
1,3-Dichloropropane	109		98		70-130	11.1		20
1,1,1,2-Tetrachloroethane	110		109		70-130	1.18		20
Bromobenzene	112		103		70-130	8.93		20
n-Butylbenzene	111		104		70-130	6.69		20
sec-Butylbenzene	111		104		70-130	6.80		20
tert-Butylbenzene	109		99		70-130	9.23		20
o-Chlorotoluene	114		105		70-130	8.21		20
p-Chlorotoluene	115	V-20	108	V-20	70-130	6.82		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571553
Report Date: 11/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-05 Batch: WG2144480-2 WG2144480-3								
1,2-Dibromo-3-chloropropane	112		104		70-130	7.58		20
Hexachlorobutadiene	104		102		70-130	2.03		20
Isopropylbenzene	110		105		70-130	5.11		20
p-Isopropyltoluene	102		96		70-130	6.14		20
Naphthalene	88		84		70-130	4.53		20
n-Propylbenzene	116		108		70-130	7.05		20
1,2,3-Trichlorobenzene	94		86		70-130	9.24		20
1,2,4-Trichlorobenzene	92		89		70-130	2.43		20
1,3,5-Trimethylbenzene	111		103		70-130	7.01		20
1,2,4-Trimethylbenzene	109		96		70-130	13.2		20
Diethyl Ether	76		74		70-130	2.00		20
Diisopropyl Ether	89		86		70-130	3.55		20
Tert-Butyl Ethyl Ether	85		82		70-130	3.96		20
Tert-Amyl Methyl Ether	92		85		70-130	8.12		20
1,4-Dioxane	98		82		40-160	18.1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571553
Report Date: 11/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-05 Batch: WG2144480-2 WG2144480-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		98		70-130
Toluene-d8	96		95		70-130
4-Bromofluorobenzene	102		103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571553
Report Date: 11/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 06-15 Batch: WG2144481-2 WG2144481-3								
Methylene chloride	96		97		70-130	1.24		20
1,1-Dichloroethane	106		108		70-130	1.87		20
Chloroform	109		112		70-130	2.81		20
Carbon tetrachloride	116		116		70-130	0.258		20
1,2-Dichloropropane	104		112		70-130	7.13		20
Chlorodibromomethane	108		109		70-130	1.48		20
1,1,2-Trichloroethane	104		109		70-130	5.54		20
Tetrachloroethene	108		111		70-130	3.20		20
Chlorobenzene	101		104		70-130	2.72		20
Trichlorofluoromethane	93		101		70-130	8.49		20
1,2-Dichloroethane	101		102		70-130	0.885		20
1,1,1-Trichloroethane	106		115		70-130	8.04		20
Bromodichloromethane	109		110		70-130	0.549		20
trans-1,3-Dichloropropene	121	V-20	124	V-20	70-130	2.37		20
cis-1,3-Dichloropropene	111		113		70-130	1.69		20
1,1-Dichloropropene	106		110		70-130	3.90		20
Bromoform	106		100		70-130	5.63		20
1,1,2,2-Tetrachloroethane	93		91		70-130	2.61		20
Benzene	107		111		70-130	3.03		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571553
Report Date: 11/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 06-15 Batch: WG2144481-2 WG2144481-3								
Toluene	103		106		70-130	2.77		20
Ethylbenzene	102		106		70-130	4.24		20
Chloromethane	102		98		40-160	3.82		20
Bromomethane	82		87		40-160	6.64		20
Vinyl chloride	92		96		70-130	3.40		20
Chloroethane	87		88		70-130	0.458		20
1,1-Dichloroethene	88		91		70-130	3.01		20
trans-1,2-Dichloroethene	97		102		70-130	4.84		20
Trichloroethene	104		109		70-130	4.23		20
1,2-Dichlorobenzene	102		104		70-130	1.64		20
1,3-Dichlorobenzene	103		108		70-130	4.26		20
1,4-Dichlorobenzene	97		99		70-130	1.23		20
Methyl tert-butyl ether	106		102		70-130	3.86		20
p/m-Xylene	102		106		70-130	3.84		20
o-Xylene	104		106		70-130	2.48		20
cis-1,2-Dichloroethene	106		109		70-130	2.71		20
Dibromomethane	105		103		70-130	1.73		20
1,2,3-Trichloropropane	90		77		70-130	15.0		20
Styrene	103		110		70-130	6.74		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571553
Report Date: 11/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 06-15 Batch: WG2144481-2 WG2144481-3								
Dichlorodifluoromethane	107		107		40-160	0.0932		20
Acetone	91		78		40-160	15.0		20
Carbon disulfide	96		98		70-130	2.13		20
2-Butanone	100		85		40-160	16.2		20
4-Methyl-2-pentanone	96		84		40-160	12.7		20
2-Hexanone	99		81		40-160	19.5		20
Bromochloromethane	120	V-20	118	V-20	70-130	2.52		20
Tetrahydrofuran	92		76		70-130	18.5		20
2,2-Dichloropropane	113		112		70-130	0.709		20
1,2-Dibromoethane	108		104		70-130	3.68		20
1,3-Dichloropropane	102		104		70-130	2.23		20
1,1,1,2-Tetrachloroethane	108		114		70-130	5.12		20
Bromobenzene	97		99		70-130	2.24		20
n-Butylbenzene	107		110		70-130	2.67		20
sec-Butylbenzene	102		107		70-130	4.49		20
tert-Butylbenzene	106		107		70-130	1.51		20
o-Chlorotoluene	100		104		70-130	3.44		20
p-Chlorotoluene	103		105		70-130	1.63		20
1,2-Dibromo-3-chloropropane	105	R-05	82	R-05	70-130	**24.1**	Q	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571553
Report Date: 11/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 06-15 Batch: WG2144481-2 WG2144481-3								
Hexachlorobutadiene	119	V-20	126	V-20	70-130	5.70		20
Isopropylbenzene	105		109		70-130	4.02		20
p-Isopropyltoluene	105		107		70-130	1.98		20
Naphthalene	109		92		70-130	17.1		20
n-Propylbenzene	102		108		70-130	5.33		20
1,2,3-Trichlorobenzene	118		115		70-130	2.40		20
1,2,4-Trichlorobenzene	117		116		70-130	1.12		20
1,3,5-Trimethylbenzene	103		108		70-130	4.75		20
1,2,4-Trimethylbenzene	105		108		70-130	2.44		20
Diethyl Ether	104		100		70-130	3.23		20
Diisopropyl Ether	111		116		70-130	4.31		20
Tert-Butyl Ethyl Ether	113		114		70-130	0.353		20
Tert-Amyl Methyl Ether	103		104		70-130	0.483		20
1,4-Dioxane	89		82		40-160	8.00		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571553
Report Date: 11/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 06-15 Batch: WG2144481-2 WG2144481-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		101		70-130
Toluene-d8	98		99		70-130
4-Bromofluorobenzene	99		96		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571553
Report Date: 11/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Gases by GC - East Longmeadow Lab Associated sample(s): 07,12 Batch: WG2144482-2								
Methane	84		-		73.2-114	-		
Ethene	82		-		67.6-116	-		
Ethane	86		-		73.1-116	-		

METALS

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-07
Client ID: 045163-MW112A
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/11/25 11:00
Date Received: 11/11/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Manganese, Total	2.26		mg/l	0.0100	--	1	11/12/25 16:24	11/16/25 14:48	EPA 3005A	97,6010D	MRP

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-12
Client ID: 045163-GEO-2
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/11/25 12:55
Date Received: 11/11/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Manganese, Total	0.0555		mg/l	0.0100	--	1	11/12/25 16:24	11/16/25 14:54	EPA 3005A	97,6010D	MRP

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 07,12 Batch: WG2140777-1										
Manganese, Total	ND		mg/l	0.0100	--	1	11/12/25 16:24	11/16/25 14:09	97,6010D	MRP

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571553
Report Date: 11/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 07,12 Batch: WG2140777-2 WG2140777-3								
Manganese, Total	97		98		80-120	1		20

INORGANICS
&
MISCELLANEOUS

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-07
Client ID: 045163-MW112A
Sample Location: SOMERVILLE, MASSACHUSETTS
Sample Depth:
Matrix: Water

Date Collected: 11/11/25 11:00
Date Received: 11/11/25
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	235.		mg CaCO3/L	2.00	NA	1	-	11/17/25 10:03	121,2320B	MKT
Chlorine, Total Residual	ND		mg/l	0.02	--	1	11/12/25 07:30	11/12/25 07:43	121,4500CL-G	DMO
Chloride	440		mg/l	20	--	10	-	11/13/25 14:42	1,9251	JER
Nitrogen, Nitrate	0.296		mg/l	0.100	--	1	-	11/12/25 05:43	121,4500NO3-F	KAF
Nitrogen, Nitrate/Nitrite	0.30		mg/l	0.10	--	1	-	11/12/25 05:43	121,4500NO3-F	KAF
Total Nitrogen	1.3		mg/l	0.30	--	1	-	11/17/25 14:31	107,-	JRO
Nitrogen, Total Kjeldahl	1.00		mg/l	0.300	--	1	11/12/25 10:00	11/12/25 22:39	121,4500NH3-H	AT
Sulfate	62.		mg/l	25	--	2.5	11/17/25 14:45	11/17/25 14:45	1,9038	MRW
Total Organic Carbon	1.0		mg/l	0.50	--	1	-	11/13/25 00:50	1,9060A	DEW
Surfactants, MBAS	ND		mg/l	0.050	--	1	11/12/25 07:15	11/12/25 09:11	121,5540C	CAR
Iron, Ferrous	ND		mg/l	0.50	--	1	-	11/12/25 02:05	121,3500FE-B	CAR
General Chemistry - East Longmeadow Lab										
Sulfide	ND		mg/l	2.0	--	1	11/13/25 15:22	11/13/25 15:22	146,4500S2-F	EDS

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2571553-12
Client ID: 045163-GEO-2
Sample Location: SOMERVILLE, MASSACHUSETTS
Sample Depth:
Matrix: Water

Date Collected: 11/11/25 12:55
Date Received: 11/11/25
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	31.6		mg CaCO3/L	2.00	NA	1	-	11/17/25 10:09	121,2320B	MKT
Chlorine, Total Residual	ND		mg/l	0.02	--	1	11/12/25 07:30	11/12/25 07:44	121,4500CL-G	DMO
Chloride	200		mg/l	20	--	10	-	11/13/25 16:14	1,9251	JER
Nitrogen, Nitrate	5.63		mg/l	0.100	--	1	-	11/12/25 05:44	121,4500NO3-F	KAF
Nitrogen, Nitrate/Nitrite	5.6		mg/l	0.10	--	1	-	11/12/25 05:44	121,4500NO3-F	KAF
Total Nitrogen	5.6		mg/l	0.30	--	1	-	11/17/25 14:31	107,-	JRO
Nitrogen, Total Kjeldahl	ND		mg/l	0.300	--	1	11/12/25 10:00	11/12/25 22:40	121,4500NH3-H	AT
Sulfate	18.		mg/l	10	--	1	11/17/25 15:30	11/17/25 15:30	1,9038	MRW
Total Organic Carbon	1.0		mg/l	0.50	--	1	-	11/13/25 00:50	1,9060A	DEW
Surfactants, MBAS	ND		mg/l	0.050	--	1	11/12/25 07:15	11/12/25 09:11	121,5540C	CAR
Iron, Ferrous	ND		mg/l	0.50	--	1	-	11/12/25 02:06	121,3500FE-B	CAR
General Chemistry - East Longmeadow Lab										
Sulfide	ND		mg/l	2.0	--	1	11/18/25 09:08	11/18/25 11:10	146,4500S2-F	EC

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571553
Report Date: 11/20/25

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 07,12 Batch: WG2140396-1										
Iron, Ferrous	ND		mg/l	0.50	--	1	-	11/12/25 02:04	121,3500FE-B	CAR
General Chemistry - Westborough Lab for sample(s): 07,12 Batch: WG2140403-1										
Nitrogen, Nitrate	ND		mg/l	0.100	--	1	-	11/12/25 04:51	121,4500NO3-F	KAF
General Chemistry - Westborough Lab for sample(s): 07,12 Batch: WG2140408-1										
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	--	1	-	11/12/25 05:01	121,4500NO3-F	KAF
General Chemistry - Westborough Lab for sample(s): 07,12 Batch: WG2140479-1										
Chlorine, Total Residual	ND		mg/l	0.02	--	1	11/12/25 07:30	11/12/25 07:42	121,4500CL-G	DMO
General Chemistry - Westborough Lab for sample(s): 07,12 Batch: WG2140557-1										
Surfactants, MBAS	ND		mg/l	0.050	--	1	11/12/25 07:15	11/12/25 09:06	121,5540C	CAR
General Chemistry - Westborough Lab for sample(s): 07,12 Batch: WG2140569-1										
Nitrogen, Total Kjeldahl	ND		mg/l	0.300	--	1	11/12/25 10:00	11/12/25 22:26	121,4500NH3-H	AT
General Chemistry - Westborough Lab for sample(s): 07,12 Batch: WG2140993-1										
Total Organic Carbon	ND		mg/l	0.50	--	1	-	11/13/25 00:50	1,9060A	DEW
General Chemistry - Westborough Lab for sample(s): 07,12 Batch: WG2141265-1										
Chloride	ND		mg/l	2.0	--	1	-	11/13/25 13:23	1,9251	JER
General Chemistry - Westborough Lab for sample(s): 07,12 Batch: WG2142547-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	11/17/25 09:05	121,2320B	MKT
General Chemistry - Westborough Lab for sample(s): 07 Batch: WG2142608-1										
Sulfate	ND		mg/l	10	--	1	11/17/25 14:45	11/17/25 14:45	1,9038	MRW
General Chemistry - Westborough Lab for sample(s): 12 Batch: WG2142609-1										
Sulfate	ND		mg/l	10	--	1	11/17/25 15:30	11/17/25 15:30	1,9038	MRW
General Chemistry - East Longmeadow Lab for sample(s): 07 Batch: WG2144483-1										
Sulfide	ND		mg/l	2.0	--	1	11/13/25 15:22	11/13/25 15:22	146,4500S2-F	EDS
General Chemistry - East Longmeadow Lab for sample(s): 12 Batch: WG2144484-1										
Sulfide	ND		mg/l	2.0	--	1	11/18/25 09:08	11/18/25 11:10	146,4500S2-F	EC

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571553
Report Date: 11/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 07,12 Batch: WG2140396-2								
Iron, Ferrous	99		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 07,12 Batch: WG2140403-2								
Nitrogen, Nitrate	102		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 07,12 Batch: WG2140408-2								
Nitrogen, Nitrate/Nitrite	102		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 07,12 Batch: WG2140479-2								
Chlorine, Total Residual	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 07,12 Batch: WG2140557-2								
Surfactants, MBAS	96		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 07,12 Batch: WG2140569-2								
Nitrogen, Total Kjeldahl	90		-		78-122	-		
General Chemistry - Westborough Lab Associated sample(s): 07,12 Batch: WG2140993-2								
Total Organic Carbon	95		-		90-110	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571553
Report Date: 11/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 07,12 Batch: WG2141265-2								
Chloride	93		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 07,12 Batch: WG2142547-2								
Alkalinity, Total	102		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 07 Batch: WG2142608-2								
Sulfate	105		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 12 Batch: WG2142609-2								
Sulfate	100		-		90-110	-		
General Chemistry - East Longmeadow Lab Associated sample(s): 07 Batch: WG2144483-2								
Sulfide	86		-		72.4-110	-		
General Chemistry - East Longmeadow Lab Associated sample(s): 12 Batch: WG2144484-2								
Sulfide	94		-		72.4-110	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571553
Report Date: 11/20/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 07,12 QC Batch ID: WG2140396-4 QC Sample: L2571553-12 Client ID: 045163-GEO-2												
Iron, Ferrous	ND	1	1.1	107		-	-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 12 QC Batch ID: WG2142609-4 QC Sample: L2571553-12 Client ID: 045163-GEO-2												
Sulfate	18	40	59	102		-	-		55-147	-		

Lab Duplicate Analysis

Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571553
Report Date: 11/20/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 07,12 QC Batch ID: WG2140396-3 QC Sample: L2571553-12 Client ID: 045163-GEO-2						
Iron, Ferrous	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 12 QC Batch ID: WG2142609-3 QC Sample: L2571553-12 Client ID: 045163-GEO-2						
Sulfate	18	17	mg/l	6		14

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571553
Report Date: 11/20/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2571553-01A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-01B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-01C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-02A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-02B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-02C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-03A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-03B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-03C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-04A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-04B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-04C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-05A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-05B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-05C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-06A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-06B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-06C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-07A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-07B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-07C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-07D	20ml Vial HCl preserved	NA	NA			Y	Absent		A3-DISSGAS(14)
L2571553-07E	20ml Vial HCl preserved	NA	NA			Y	Absent		A3-DISSGAS(14)

*Values in parentheses indicate holding time in days

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571553
Report Date: 11/20/25

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2571553-07F	20ml Vial HCl preserved	NA	NA			Y	Absent		A3-DISSGAS(14)
L2571553-07G	Vial H2SO4 preserved	NA	NA			Y	Absent		TOC-9060(28)
L2571553-07H	Vial H2SO4 preserved	NA	NA			Y	Absent		TOC-9060(28)
L2571553-07I	Plastic 250ml unpreserved/No Headspace	NA	NA			Y	Absent		ALK-T-2320(14)
L2571553-07J	Plastic 250ml HNO3 preserved	NA	NA			Y	Absent		MCP-MN-6010T-10(180)
L2571553-07K	Plastic 250ml H2SO4 preserved	NA	NA			Y	Absent		TKN-4500(28),NO3/NO2-4500(28),TNITROGEN(28)
L2571553-07L	Plastic 250ml Zn Acetate/NaOH preserved	NA	NA			Y	Absent		A3-SULFIDE-4500(7)
L2571553-07M	Plastic 250ml Zn Acetate/NaOH preserved	NA	NA			Y	Absent		A3-SULFIDE-4500(7)
L2571553-07N	Plastic 950ml unpreserved	NA	NA			Y	Absent		TRC-4500-G(1),SO4-9038(28),CL-9251(28),NO3-4500(2),MBAS-5540(2),FERROUS(1)
L2571553-07O	Plastic 950ml unpreserved	NA	NA			Y	Absent		TRC-4500-G(1),SO4-9038(28),CL-9251(28),NO3-4500(2),MBAS-5540(2),FERROUS(1)
L2571553-08A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-08B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-08C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-09A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-09B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-09C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-10A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-10B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-10C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-11A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-11B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-11C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-12A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-12B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-12C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-12D	20ml Vial HCl preserved	NA	NA			Y	Absent		A3-DISSGAS(14)

*Values in parentheses indicate holding time in days

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571553
Report Date: 11/20/25

Container Information

Container ID	*Container Type*	*Cooler*	*Initial pH*	*Final pH*	*Temp deg C*	*Pres*	*Seal*	*Frozen Date/Time*	*Analysis(*)*
L2571553-12E	20ml Vial HCl preserved	NA	NA			Y	Absent		A3-DISSGAS(14)
L2571553-12F	20ml Vial HCl preserved	NA	NA			Y	Absent		A3-DISSGAS(14)
L2571553-12G	Vial H2SO4 preserved	NA	NA			Y	Absent		TOC-9060(28)
L2571553-12H	Vial H2SO4 preserved	NA	NA			Y	Absent		TOC-9060(28)
L2571553-12I	Plastic 250ml unpreserved/No Headspace	NA	NA			Y	Absent		ALK-T-2320(14)
L2571553-12J	Plastic 250ml HNO3 preserved	NA	NA			Y	Absent		MCP-MN-6010T-10(180)
L2571553-12K	Plastic 250ml H2SO4 preserved	NA	NA			Y	Absent		TKN-4500(28),NO3/NO2-4500(28),TNITROGEN(28)
L2571553-12L	Plastic 250ml Zn Acetate/NaOH preserved	NA	NA			Y	Absent		A3-SULFIDE-4500(7)
L2571553-12M	Plastic 250ml Zn Acetate/NaOH preserved	NA	NA			Y	Absent		A3-SULFIDE-4500(7)
L2571553-12N	Plastic 950ml unpreserved	NA	NA			Y	Absent		TRC-4500-G(1),CL-9251(28),SO4-9038(28),NO3-4500(2),MBAS-5540(2),FERROUS(1)
L2571553-12O	Plastic 950ml unpreserved	NA	NA			Y	Absent		TRC-4500-G(1),CL-9251(28),SO4-9038(28),NO3-4500(2),MBAS-5540(2),FERROUS(1)
L2571553-13A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-13B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-13C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-14A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-14B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-14C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-15A	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-15B	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)
L2571553-15C	Vial HCl preserved	NA	NA			Y	Absent		A3-MCP-8260-21(14)

*Values in parentheses indicate holding time in days

Project Name:	50 TUFTS STREET	**Lab Number:**	L2571553
Project Number:	045163	**Report Date:**	11/20/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	50 TUFTS STREET	**Lab Number:**	L2571553
Project Number:	045163	**Report Date:**	11/20/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	50 TUFTS STREET	**Lab Number:**	L2571553
Project Number:	045163	**Report Date:**	11/20/25

Data Qualifiers

ND	- Not detected at the reporting limit (RL) for the sample.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
S	- Analytical results are from modified screening analysis.
V	- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
Z	- The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
L-04	- Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-14	- Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
R-05	- Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-05	- Elevated reporting limit due to high concentration of target compounds. MA CAM reporting limit not met.
RL-07	- Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
V-05	- Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	- Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Project Name: 50 TUFTS STREET **Lab Number:** L2571553

Project Number: 045163 **Report Date:** 11/20/25

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSCCAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010; WSC-CAM-IIIA and IIID, January 2024; WSC-CAM-IIIB and VA, February 2024; WSC-CAM-VB and VC, April 2024; and WSC-CAM-VIA, VIB, IXA, and IXB, October 2024.

107 Calculation method.

117 Technical Guidance for the Natural Attenuation Indicators: Methane, Ethane, and Ethene, EPA-NE, Revision 1, February 21, 2002 and Sample Preparation & Calculations for Dissolved Gas Analysis in Water Samples using a GC Headspace Equilibration Technique, EPA RSKSOP-175, Revision 2, May 2004.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

141 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA and IIB, November 2021.

146 APHA Standard Methods for the Examination of Water and Wastewater, 21st/22nd/23rd/24th edition, 2005/2012/2017/2023.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY kY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
MA M-MA00030, CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

Chain-of-Custody Record

Laboratory: Pace

Laboratory Job # L2571553 (Lab use only)

GEI Consultants
400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000

Project Information

Project Name: Tufts Street

Project Number: 045163

Project Location: Somerville, Massachusetts

Project Manager: Chris Coner
cconer@geiconsultants.com

Send Report to: Chris Coner, Davis Miller
labdata@geiconsultants.com

Preservative

HCl	HCl	None	NaOH & Zn Acetate	H3PO4	HNO3	H2SO4			

Sample Handling

Samples Field Filtered
YES (NO) NA

Sampled Shipped With Ice
(YES) NO

MCP PRESUMPTIVE CERTAINTY AND MCP ANALYTICAL METHODS REQUIRED: (YES) NO

STATE AND FEDERAL REGULATORY REQUIREMENTS/REPORT LIMITS

State/Federal Program: (MA) 401WQC Other _____ NH RI CT NY ME

MA MCP Criteria are Method 1 S-1 and GW-2/GW-3. Circle if GW-1 is required.

Lab Sample Number	GEI Sample ID	Collection Date	Collection Time	Matrix	No. of Bottles	Sampler(s) Initials	VOCs 8260	Methane, Ethane, Ethene	Alkalinity, Cl-, TRC*, Fe II, N, NO3, SO4, Surfactants	Sulfide	TOC	Manganese	NO2 & NO3 as Nitrogen				Sample Specific Remarks
71553-01	045163-MW121D	11/11/25	820	GW	3	CMG	X										
-02	045163-MW119T		830	GW	3	NMT	X										
-03	045163-MW121S		0915	GW	3	CMG	X										
-04	045163-MW116		920	GW	3	JWG	X										
-05	045163-MW[illegible]		1035	GW	3	CMG	X										
-06	045163-MW119S		1010	GW	3	NMT	X										
-07	045163-MW112A		1100	GW	15	JWG	X	X	X	X	X	X	X				
-08	045163-MW120S		1135	GW	3	NMT	X										
-09	045163-MW[illegible]		1140	GW	3	CMG	X										
-10	045163-MW900		1200	GW	3	JWG	X										
-11	045163-MW901		1205	GW	3	JWG	X										
-12	045163-GEO2		1255	GW	15	JWG	X	X	X	X	X	X	X				

Relinquished by sampler: (signature)	Date:	Time:	Received by: (signature)
1. [signature]	11/11/25	1418	1. [signature]
2. [signature]	11/11/25	1600	2. [signature]
3.			3.
4.			4.
5.			5.

Turnaround Time (Business days):

5-Day _X_ 4-Day ____ 3-Day ____
2-Day ____ 1-Day ____ Other ____

Before submitting rush turnaround samples, you **must** notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

Matrix Abbreviations: SO = Soil GW = Groundwater SW = Surface Water SD = Sediment CO = Concrete PC = Paint Chip CLK = Caulk

Chain-of-Custody Record

Laboratory: Pace

Laboratory Job # (Lab use only) L2571553

GEI Consultants
400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000

Project Information

Project Name: Tufts Street
Project Number: 045163
Project Location: Somerville, Massachusetts
Project Manager: Chris Coner
cconer@geiconsultants.com

Send Report to: Chris Coner, Davis Miller
labdata@geiconsultants.com

MCP PRESUMPTIVE CERTAINTY AND MCP ANALYTICAL METHODS REQUIRED: (YES) NO

STATE AND FEDERAL REGULATORY REQUIREMENTS/REPORT LIMITS

State/Federal Program: (MA) 401WQC Other _____ NH RI CT NY ME

MA MCP Criteria are Method 1 S-1 and GW-2/GW-3. Circle if GW-1 is required.

Sample Handling: Samples Field Filtered YES (NO) NA

Sampled Shipped With Ice (YES) NO

Lab Sample Number	GEI Sample ID	Collection Date	Collection Time	Matrix	No. of Bottles	Sampler(s) Initials	Preservative: HCl	HCl	None	NaOH & Zn Acetate	H3PO4	HNO3	H2SO4				VOCs 8260	Methane, Ethane, Ethene	Alkalinity, Cl-, TRC*, Fe II, N, NO3, SO4, Surfactants	Sulfide	TOC	Manganese	NO2 & NO3 as Nitrogen				Sample Specific Remarks
71553-13	045163-MW120D	11/11/25	1310	GW	3	NMT											X										
-14	045163-MW301	11/11/25	1335	GW	3	NMT											X										
15	045163-MW402	11/11/25	1350	GW	3	CMG											X										

Relinquished by sampler: (signature)	Date	Time	Received by: (signature)
CMcCallen Conn	11/11/25	1418	1.
2.	11/11/25	1600	2.
Relinquished by: (signature) 3.	Date	Time	Received by: (signature) 3.
Relinquished by: (signature) 4.	Date	Time	Received by: (signature) 4.
Relinquished by: (signature) 5.	Date	Time	Received by: (signature) 5.

Turnaround Time (Business days):

5-Day _X_ 4-Day _____ 3-Day _____
2-Day _____ 1-Day _____ Other _____

Before submitting rush turnaround samples, you **must** notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

Sample Matrix Abbreviations: SO = Soil GW = Groundwater SW = Surface Water SD = Sediment CO = Concrete PC = Paint Chip CLK = Caulk

MNA Parameters

- Methane
- Ethane
- Ethene
- Alkalinity
- Chloride
- Total Residual Chloride
- Iron II
- Nitrogen, Nitrate
- Sulfate
- Surfactants
- Sulfide
- TOC
- Manganese
- Nitrate and Nitrite as Nitrogen

Sample Delivery Group Summary

Pace Job Number : L2571553

Account Name : GEI Consultants
Project Number : 045163
Project Name : 50 TUFTS STREET

Received : 11-NOV-2025
Reviewer : Jordan Riley

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	4.3	

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**NA**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NO**

ANALYTICAL REPORT

Lab Number:	L2571940
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	50 TUFTS STREET
Project Number:	045163
Report Date:	11/26/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571940
Report Date: 11/26/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2571940-01	045163-MW122	WATER	SOMERVILLE, MASSACHUSETTS	11/12/25 08:25	11/12/25
L2571940-02	045163-MW111R	WATER	SOMERVILLE, MASSACHUSETTS	11/12/25 08:30	11/12/25
L2571940-03	045163-SHMW-2R	WATER	SOMERVILLE, MASSACHUSETTS	11/12/25 09:40	11/12/25
L2571940-04	045163-MW201	WATER	SOMERVILLE, MASSACHUSETTS	11/12/25 09:15	11/12/25
L2571940-05	045163-MW404	WATER	SOMERVILLE, MASSACHUSETTS	11/12/25 11:10	11/12/25
L2571940-06	045163-MW202	WATER	SOMERVILLE, MASSACHUSETTS	11/12/25 11:55	11/12/25
L2571940-07	045163-GEO-6	WATER	SOMERVILLE, MASSACHUSETTS	11/12/25 12:15	11/12/25
L2571940-08	045163-MW108	WATER	SOMERVILLE, MASSACHUSETTS	11/12/25 11:30	11/12/25
L2571940-09	045163-GEO-4	WATER	SOMERVILLE, MASSACHUSETTS	11/12/25 12:40	11/12/25
L2571940-10	045163-MW106	WATER	SOMERVILLE, MASSACHUSETTS	11/12/25 10:20	11/12/25
L2571940-11	045163-GEO-5	WATER	SOMERVILLE, MASSACHUSETTS	11/12/25 13:00	11/12/25
L2571940-12	045163-MW107	WATER	SOMERVILLE, MASSACHUSETTS	11/12/25 13:05	11/12/25
L2571940-13	045163-MW902	WATER	SOMERVILLE, MASSACHUSETTS	11/12/25 12:00	11/12/25

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E 1.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E 2.	PFAS Only: Were aqueous samples extracted without filtering?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits/lower limits of quantitation at or below all CAM reporting limits/lower limits of quantitation specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	50 TUFTS STREET	**Lab Number:**	L2571940
Project Number:	045163	**Report Date:**	11/26/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 11/26/25

QC OUTLIER SUMMARY REPORT

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571940
Report Date: 11/26/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
MCP Volatile Organics by GC/MS - East Longmeadow Lab								
8260D	Batch QC	WG2143808-3	Naphthalene	LCSD	28.5	70-130	01-05,07-13	non-directional bias
8260D	Batch QC	WG2143808-3	1,4-Dioxane	LCSD	43.4	40-160	01-05,07-13	non-directional bias
8260D	Batch QC	WG2143809-3	1,2,3-Trichlorobenzene	LCSD	24.6	70-130	06	non-directional bias
8260D	Batch QC	WG2143809-3	1,4-Dioxane	LCSD	34.1	40-160	06	non-directional bias

ORGANICS

VOLATILES

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571940
Report Date: 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-01
Client ID: 045163-MW122
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/12/25 08:25
Date Received: 11/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 20:19
Analyst: EEH
Extraction Method: EPA 5030B
Extraction Date: 11/13/25 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-05	ug/l	250	--	50
1,1-Dichloroethane	ND	RL-05	ug/l	50	--	50
Chloroform	ND	RL-05	ug/l	100	--	50
Carbon tetrachloride	ND	RL-05	ug/l	50	--	50
1,2-Dichloropropane	ND	RL-05	ug/l	50	--	50
Chlorodibromomethane	ND	RL-05	ug/l	25	--	50
1,1,2-Trichloroethane	ND	RL-05	ug/l	50	--	50
Tetrachloroethene	210	RL-05	ug/l	50	--	50
Chlorobenzene	ND	RL-05	ug/l	50	--	50
Trichlorofluoromethane	ND	RL-05	ug/l	100	--	50
1,2-Dichloroethane	ND	RL-05	ug/l	50	--	50
1,1,1-Trichloroethane	ND	RL-05	ug/l	50	--	50
Bromodichloromethane	ND	RL-05	ug/l	50	--	50
trans-1,3-Dichloropropene	ND	RL-05	ug/l	20	--	50
cis-1,3-Dichloropropene	ND	RL-05	ug/l	20	--	50
1,1-Dichloropropene	ND	RL-05	ug/l	25	--	50
Bromoform	ND	RL-05	ug/l	50	--	50
1,1,2,2-Tetrachloroethane	ND	RL-05	ug/l	25	--	50
Benzene	ND	RL-05	ug/l	50	--	50
Toluene	ND	RL-05	ug/l	50	--	50
Ethylbenzene	ND	RL-05	ug/l	50	--	50
Chloromethane	ND	RL-05	ug/l	100	--	50
Bromomethane	ND	RL-05	ug/l	100	--	50
Vinyl chloride	ND	RL-05	ug/l	100	--	50
Chloroethane	ND	RL-05	ug/l	100	--	50
1,1-Dichloroethene	ND	RL-05	ug/l	50	--	50
trans-1,2-Dichloroethene	ND	RL-05	ug/l	50	--	50
Trichloroethene	ND	RL-05	ug/l	50	--	50

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-01 Date Collected: 11/12/25 08:25

Client ID: 045163-MW122 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND	RL-05	ug/l	50	--	50
1,3-Dichlorobenzene	ND	RL-05	ug/l	50	--	50
1,4-Dichlorobenzene	ND	RL-05	ug/l	50	--	50
Methyl tert-butyl ether	ND	RL-05	ug/l	50	--	50
p/m-Xylene	ND	RL-05	ug/l	100	--	50
o-Xylene	ND	RL-05	ug/l	50	--	50
cis-1,2-Dichloroethene	410	RL-05	ug/l	50	--	50
Dibromomethane	ND	RL-05	ug/l	50	--	50
1,2,3-Trichloropropane	ND	RL-05	ug/l	100	--	50
Styrene	5200	RL-05	ug/l	50	--	50
Dichlorodifluoromethane	ND	RL-05	ug/l	100	--	50
Acetone	ND	RL-05	ug/l	500	--	50
Carbon disulfide	ND	RL-05	ug/l	250	--	50
2-Butanone	ND	RL-05	ug/l	500	--	50
4-Methyl-2-pentanone	ND	RL-05	ug/l	500	--	50
2-Hexanone	ND	RL-05	ug/l	500	--	50
Bromochloromethane	ND	RL-05	ug/l	50	--	50
Tetrahydrofuran	ND	RL-05	ug/l	100	--	50
2,2-Dichloropropane	ND	RL-05	ug/l	50	--	50
1,2-Dibromoethane	ND	RL-05	ug/l	25	--	50
1,3-Dichloropropane	ND	RL-05	ug/l	25	--	50
1,1,1,2-Tetrachloroethane	ND	RL-05	ug/l	50	--	50
Bromobenzene	ND	RL-05	ug/l	50	--	50
n-Butylbenzene	ND	RL-05	ug/l	50	--	50
sec-Butylbenzene	ND	RL-05	ug/l	50	--	50
tert-Butylbenzene	ND	RL-05	ug/l	50	--	50
o-Chlorotoluene	ND	RL-05	ug/l	50	--	50
p-Chlorotoluene	ND	RL-05	ug/l	50	--	50
1,2-Dibromo-3-chloropropane	ND	RL-05	ug/l	100	--	50
Hexachlorobutadiene	ND	RL-05	ug/l	30	--	50
Isopropylbenzene	ND	RL-05	ug/l	50	--	50
p-Isopropyltoluene	ND	RL-05	ug/l	50	--	50
Naphthalene	ND	R-05, RL-05	ug/l	100	--	50
n-Propylbenzene	ND	RL-05	ug/l	50	--	50
1,2,3-Trichlorobenzene	ND	RL-05	ug/l	100	--	50
1,2,4-Trichlorobenzene	ND	RL-05	ug/l	50	--	50
1,3,5-Trimethylbenzene	ND	RL-05	ug/l	50	--	50

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-01 Date Collected: 11/12/25 08:25

Client ID: 045163-MW122 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND	RL-05	ug/l	50	--	50
Diethyl Ether	ND	RL-05	ug/l	100	--	50
Diisopropyl Ether	ND	RL-05	ug/l	25	--	50
Tert-Butyl Ethyl Ether	ND	RL-05	ug/l	25	--	50
Tert-Amyl Methyl Ether	ND	RL-05	ug/l	25	--	50
1,4-Dioxane	ND	R-05, RL-05	ug/l	2500	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100	RL-05	70-130
Toluene-d8	99	RL-05	70-130
4-Bromofluorobenzene	93	RL-05	70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571940
Report Date: 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-02
Client ID: 045163-MW111R
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/12/25 08:30
Date Received: 11/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 19:52
Analyst: EEH
Extraction Method: EPA 5030B
Extraction Date: 11/13/25 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	45		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	3.6		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-02 Date Collected: 11/12/25 08:30

Client ID: 045163-MW111R Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	2.6		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND	R-05	ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-02 Date Collected: 11/12/25 08:30

Client ID: 045163-MW111R Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND	R-05	ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571940
Report Date: 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-03
Client ID: 045163-SHMW-2R
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/12/25 09:40
Date Received: 11/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 17:13
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/13/25 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-05	ug/l	120	--	25
1,1-Dichloroethane	ND	RL-05	ug/l	25	--	25
Chloroform	ND	RL-05	ug/l	50	--	25
Carbon tetrachloride	ND	RL-05	ug/l	25	--	25
1,2-Dichloropropane	ND	RL-05	ug/l	25	--	25
Chlorodibromomethane	ND	RL-05	ug/l	12	--	25
1,1,2-Trichloroethane	ND	RL-05	ug/l	25	--	25
Tetrachloroethene	3400	RL-05	ug/l	25	--	25
Chlorobenzene	ND	RL-05	ug/l	25	--	25
Trichlorofluoromethane	ND	RL-05	ug/l	50	--	25
1,2-Dichloroethane	ND	RL-05	ug/l	25	--	25
1,1,1-Trichloroethane	ND	RL-05	ug/l	25	--	25
Bromodichloromethane	ND	RL-05	ug/l	25	--	25
trans-1,3-Dichloropropene	ND	RL-05	ug/l	10	--	25
cis-1,3-Dichloropropene	ND	RL-05	ug/l	10	--	25
1,1-Dichloropropene	ND	RL-05	ug/l	12	--	25
Bromoform	ND	RL-05	ug/l	25	--	25
1,1,2,2-Tetrachloroethane	ND	RL-05	ug/l	12	--	25
Benzene	ND	RL-05	ug/l	25	--	25
Toluene	ND	RL-05	ug/l	25	--	25
Ethylbenzene	ND	RL-05	ug/l	25	--	25
Chloromethane	ND	RL-05	ug/l	50	--	25
Bromomethane	ND	RL-05	ug/l	50	--	25
Vinyl chloride	ND	RL-05	ug/l	50	--	25
Chloroethane	ND	RL-05	ug/l	50	--	25
1,1-Dichloroethene	ND	RL-05	ug/l	25	--	25
trans-1,2-Dichloroethene	ND	RL-05	ug/l	25	--	25
Trichloroethene	60	RL-05	ug/l	25	--	25

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-03 Date Collected: 11/12/25 09:40

Client ID: 045163-SHMW-2R Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND	RL-05	ug/l	25	--	25
1,3-Dichlorobenzene	ND	RL-05	ug/l	25	--	25
1,4-Dichlorobenzene	ND	RL-05	ug/l	25	--	25
Methyl tert-butyl ether	ND	RL-05	ug/l	25	--	25
p/m-Xylene	ND	RL-05	ug/l	50	--	25
o-Xylene	ND	RL-05	ug/l	25	--	25
cis-1,2-Dichloroethene	30	RL-05	ug/l	25	--	25
Dibromomethane	ND	RL-05	ug/l	25	--	25
1,2,3-Trichloropropane	ND	RL-05	ug/l	50	--	25
Styrene	ND	RL-05	ug/l	25	--	25
Dichlorodifluoromethane	ND	RL-05	ug/l	50	--	25
Acetone	ND	RL-05	ug/l	250	--	25
Carbon disulfide	ND	RL-05	ug/l	120	--	25
2-Butanone	ND	RL-05	ug/l	250	--	25
4-Methyl-2-pentanone	ND	RL-05	ug/l	250	--	25
2-Hexanone	ND	RL-05	ug/l	250	--	25
Bromochloromethane	ND	RL-05	ug/l	25	--	25
Tetrahydrofuran	ND	RL-05	ug/l	50	--	25
2,2-Dichloropropane	ND	RL-05	ug/l	25	--	25
1,2-Dibromoethane	ND	RL-05	ug/l	12	--	25
1,3-Dichloropropane	ND	RL-05	ug/l	12	--	25
1,1,1,2-Tetrachloroethane	ND	RL-05	ug/l	25	--	25
Bromobenzene	ND	RL-05	ug/l	25	--	25
n-Butylbenzene	ND	RL-05	ug/l	25	--	25
sec-Butylbenzene	ND	RL-05	ug/l	25	--	25
tert-Butylbenzene	ND	RL-05	ug/l	25	--	25
o-Chlorotoluene	ND	RL-05	ug/l	25	--	25
p-Chlorotoluene	ND	RL-05	ug/l	25	--	25
1,2-Dibromo-3-chloropropane	ND	RL-05	ug/l	50	--	25
Hexachlorobutadiene	ND	RL-05	ug/l	15	--	25
Isopropylbenzene	ND	RL-05	ug/l	25	--	25
p-Isopropyltoluene	ND	RL-05	ug/l	25	--	25
Naphthalene	ND	R-05, RL-05	ug/l	50	--	25
n-Propylbenzene	ND	RL-05	ug/l	25	--	25
1,2,3-Trichlorobenzene	ND	RL-05	ug/l	50	--	25
1,2,4-Trichlorobenzene	ND	RL-05	ug/l	25	--	25
1,3,5-Trimethylbenzene	ND	RL-05	ug/l	25	--	25

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-03 Date Collected: 11/12/25 09:40

Client ID: 045163-SHMW-2R Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND	RL-05	ug/l	25	--	25
Diethyl Ether	ND	RL-05	ug/l	50	--	25
Diisopropyl Ether	ND	RL-05	ug/l	12	--	25
Tert-Butyl Ethyl Ether	ND	RL-05	ug/l	12	--	25
Tert-Amyl Methyl Ether	ND	RL-05	ug/l	12	--	25
1,4-Dioxane	ND	R-05, RL-05	ug/l	1200	--	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92	RL-05	70-130
Toluene-d8	96	RL-05	70-130
4-Bromofluorobenzene	94	RL-05	70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571940
Report Date: 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-04
Client ID: 045163-MW201
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/12/25 09:15
Date Received: 11/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 15:00
Analyst: EEH
Extraction Method: EPA 5030B
Extraction Date: 11/13/25 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	13		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	1.9		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	3.2		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-04 Date Collected: 11/12/25 09:15

Client ID: 045163-MW201 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND	R-05	ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-04 Date Collected: 11/12/25 09:15

Client ID: 045163-MW201 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND	R-05	ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571940
Report Date: 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-05
Client ID: 045163-MW404
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/12/25 11:10
Date Received: 11/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 17:40
Analyst: EEH
Extraction Method: EPA 5030B
Extraction Date: 11/13/25 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-05	ug/l	2000	--	400
1,1-Dichloroethane	ND	RL-05	ug/l	400	--	400
Chloroform	ND	RL-05	ug/l	800	--	400
Carbon tetrachloride	ND	RL-05	ug/l	400	--	400
1,2-Dichloropropane	ND	RL-05	ug/l	400	--	400
Chlorodibromomethane	ND	RL-05	ug/l	200	--	400
1,1,2-Trichloroethane	ND	RL-05	ug/l	400	--	400
Tetrachloroethene	44000	RL-05	ug/l	400	--	400
Chlorobenzene	ND	RL-05	ug/l	400	--	400
Trichlorofluoromethane	ND	RL-05	ug/l	800	--	400
1,2-Dichloroethane	ND	RL-05	ug/l	400	--	400
1,1,1-Trichloroethane	ND	RL-05	ug/l	400	--	400
Bromodichloromethane	ND	RL-05	ug/l	400	--	400
trans-1,3-Dichloropropene	ND	RL-05	ug/l	160	--	400
cis-1,3-Dichloropropene	ND	RL-05	ug/l	160	--	400
1,1-Dichloropropene	ND	RL-05	ug/l	200	--	400
Bromoform	ND	RL-05	ug/l	400	--	400
1,1,2,2-Tetrachloroethane	ND	RL-05	ug/l	200	--	400
Benzene	ND	RL-05	ug/l	400	--	400
Toluene	ND	RL-05	ug/l	400	--	400
Ethylbenzene	ND	RL-05	ug/l	400	--	400
Chloromethane	ND	RL-05	ug/l	800	--	400
Bromomethane	ND	RL-05	ug/l	800	--	400
Vinyl chloride	ND	RL-05	ug/l	800	--	400
Chloroethane	ND	RL-05	ug/l	800	--	400
1,1-Dichloroethene	ND	RL-05	ug/l	400	--	400
trans-1,2-Dichloroethene	ND	RL-05	ug/l	400	--	400
Trichloroethene	2600	RL-05	ug/l	400	--	400

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-05 Date Collected: 11/12/25 11:10

Client ID: 045163-MW404 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND	RL-05	ug/l	400	--	400
1,3-Dichlorobenzene	ND	RL-05	ug/l	400	--	400
1,4-Dichlorobenzene	ND	RL-05	ug/l	400	--	400
Methyl tert-butyl ether	ND	RL-05	ug/l	400	--	400
p/m-Xylene	ND	RL-05	ug/l	800	--	400
o-Xylene	ND	RL-05	ug/l	400	--	400
cis-1,2-Dichloroethene	ND	RL-05	ug/l	400	--	400
Dibromomethane	ND	RL-05	ug/l	400	--	400
1,2,3-Trichloropropane	ND	RL-05	ug/l	800	--	400
Styrene	ND	RL-05	ug/l	400	--	400
Dichlorodifluoromethane	ND	RL-05	ug/l	800	--	400
Acetone	ND	RL-05	ug/l	4000	--	400
Carbon disulfide	ND	RL-05	ug/l	2000	--	400
2-Butanone	ND	RL-05	ug/l	4000	--	400
4-Methyl-2-pentanone	ND	RL-05	ug/l	4000	--	400
2-Hexanone	ND	RL-05	ug/l	4000	--	400
Bromochloromethane	ND	RL-05	ug/l	400	--	400
Tetrahydrofuran	ND	RL-05	ug/l	800	--	400
2,2-Dichloropropane	ND	RL-05	ug/l	400	--	400
1,2-Dibromoethane	ND	RL-05	ug/l	200	--	400
1,3-Dichloropropane	ND	RL-05	ug/l	200	--	400
1,1,1,2-Tetrachloroethane	ND	RL-05	ug/l	400	--	400
Bromobenzene	ND	RL-05	ug/l	400	--	400
n-Butylbenzene	ND	RL-05	ug/l	400	--	400
sec-Butylbenzene	ND	RL-05	ug/l	400	--	400
tert-Butylbenzene	ND	RL-05	ug/l	400	--	400
o-Chlorotoluene	ND	RL-05	ug/l	400	--	400
p-Chlorotoluene	ND	RL-05	ug/l	400	--	400
1,2-Dibromo-3-chloropropane	ND	RL-05	ug/l	800	--	400
Hexachlorobutadiene	ND	RL-05	ug/l	240	--	400
Isopropylbenzene	ND	RL-05	ug/l	400	--	400
p-Isopropyltoluene	ND	RL-05	ug/l	400	--	400
Naphthalene	ND	R-05, RL-05	ug/l	800	--	400
n-Propylbenzene	ND	RL-05	ug/l	400	--	400
1,2,3-Trichlorobenzene	ND	RL-05	ug/l	800	--	400
1,2,4-Trichlorobenzene	ND	RL-05	ug/l	400	--	400
1,3,5-Trimethylbenzene	ND	RL-05	ug/l	400	--	400

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-05 Date Collected: 11/12/25 11:10

Client ID: 045163-MW404 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND	RL-05	ug/l	400	--	400
Diethyl Ether	ND	RL-05	ug/l	800	--	400
Diisopropyl Ether	ND	RL-05	ug/l	200	--	400
Tert-Butyl Ethyl Ether	ND	RL-05	ug/l	200	--	400
Tert-Amyl Methyl Ether	ND	RL-05	ug/l	200	--	400
1,4-Dioxane	ND	R-05, RL-05	ug/l	20000	--	400

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96	RL-05	70-130
Toluene-d8	97	RL-05	70-130
4-Bromofluorobenzene	90	RL-05	70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571940
Report Date: 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-06
Client ID: 045163-MW202
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/12/25 11:55
Date Received: 11/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/18/25 05:03
Analyst: MFF
Extraction Method: EPA 5030B
Extraction Date: 11/13/25 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	24		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	3.8		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-06 Date Collected: 11/12/25 11:55

Client ID: 045163-MW202 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND	R-05	ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-06 Date Collected: 11/12/25 11:55

Client ID: 045163-MW202 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND	V-05	ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	93		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571940
Report Date: 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-07
Client ID: 045163-GEO-6
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/12/25 12:15
Date Received: 11/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 18:33
Analyst: EEH
Extraction Method: EPA 5030B
Extraction Date: 11/13/25 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-05	ug/l	100	--	20
1,1-Dichloroethane	ND	RL-05	ug/l	20	--	20
Chloroform	ND	RL-05	ug/l	40	--	20
Carbon tetrachloride	ND	RL-05	ug/l	20	--	20
1,2-Dichloropropane	ND	RL-05	ug/l	20	--	20
Chlorodibromomethane	ND	RL-05	ug/l	10	--	20
1,1,2-Trichloroethane	ND	RL-05	ug/l	20	--	20
Tetrachloroethene	2500	RL-05	ug/l	20	--	20
Chlorobenzene	ND	RL-05	ug/l	20	--	20
Trichlorofluoromethane	ND	RL-05	ug/l	40	--	20
1,2-Dichloroethane	ND	RL-05	ug/l	20	--	20
1,1,1-Trichloroethane	ND	RL-05	ug/l	20	--	20
Bromodichloromethane	ND	RL-05	ug/l	20	--	20
trans-1,3-Dichloropropene	ND	RL-05	ug/l	8.0	--	20
cis-1,3-Dichloropropene	ND	RL-05	ug/l	8.0	--	20
1,1-Dichloropropene	ND	RL-05	ug/l	10	--	20
Bromoform	ND	RL-05	ug/l	20	--	20
1,1,2,2-Tetrachloroethane	ND	RL-05	ug/l	10	--	20
Benzene	ND	RL-05	ug/l	20	--	20
Toluene	ND	RL-05	ug/l	20	--	20
Ethylbenzene	ND	RL-05	ug/l	20	--	20
Chloromethane	ND	RL-05	ug/l	40	--	20
Bromomethane	ND	RL-05	ug/l	40	--	20
Vinyl chloride	ND	RL-05	ug/l	40	--	20
Chloroethane	ND	RL-05	ug/l	40	--	20
1,1-Dichloroethene	ND	RL-05	ug/l	20	--	20
trans-1,2-Dichloroethene	ND	RL-05	ug/l	20	--	20
Trichloroethene	58	RL-05	ug/l	20	--	20

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-07 Date Collected: 11/12/25 12:15

Client ID: 045163-GEO-6 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND	RL-05	ug/l	20	--	20
1,3-Dichlorobenzene	ND	RL-05	ug/l	20	--	20
1,4-Dichlorobenzene	ND	RL-05	ug/l	20	--	20
Methyl tert-butyl ether	ND	RL-05	ug/l	20	--	20
p/m-Xylene	ND	RL-05	ug/l	40	--	20
o-Xylene	ND	RL-05	ug/l	20	--	20
cis-1,2-Dichloroethene	ND	RL-05	ug/l	20	--	20
Dibromomethane	ND	RL-05	ug/l	20	--	20
1,2,3-Trichloropropane	ND	RL-05	ug/l	40	--	20
Styrene	ND	RL-05	ug/l	20	--	20
Dichlorodifluoromethane	ND	RL-05	ug/l	40	--	20
Acetone	ND	RL-05	ug/l	200	--	20
Carbon disulfide	ND	RL-05	ug/l	100	--	20
2-Butanone	ND	RL-05	ug/l	200	--	20
4-Methyl-2-pentanone	ND	RL-05	ug/l	200	--	20
2-Hexanone	ND	RL-05	ug/l	200	--	20
Bromochloromethane	ND	RL-05	ug/l	20	--	20
Tetrahydrofuran	ND	RL-05	ug/l	40	--	20
2,2-Dichloropropane	ND	RL-05	ug/l	20	--	20
1,2-Dibromoethane	ND	RL-05	ug/l	10	--	20
1,3-Dichloropropane	ND	RL-05	ug/l	10	--	20
1,1,1,2-Tetrachloroethane	ND	RL-05	ug/l	20	--	20
Bromobenzene	ND	RL-05	ug/l	20	--	20
n-Butylbenzene	ND	RL-05	ug/l	20	--	20
sec-Butylbenzene	ND	RL-05	ug/l	20	--	20
tert-Butylbenzene	ND	RL-05	ug/l	20	--	20
o-Chlorotoluene	ND	RL-05	ug/l	20	--	20
p-Chlorotoluene	ND	RL-05	ug/l	20	--	20
1,2-Dibromo-3-chloropropane	ND	RL-05	ug/l	40	--	20
Hexachlorobutadiene	ND	RL-05	ug/l	12	--	20
Isopropylbenzene	ND	RL-05	ug/l	20	--	20
p-Isopropyltoluene	ND	RL-05	ug/l	20	--	20
Naphthalene	ND	R-05, RL-05	ug/l	40	--	20
n-Propylbenzene	ND	RL-05	ug/l	20	--	20
1,2,3-Trichlorobenzene	ND	RL-05	ug/l	40	--	20
1,2,4-Trichlorobenzene	ND	RL-05	ug/l	20	--	20
1,3,5-Trimethylbenzene	ND	RL-05	ug/l	20	--	20

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-07 Date Collected: 11/12/25 12:15

Client ID: 045163-GEO-6 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND	RL-05	ug/l	20	--	20
Diethyl Ether	ND	RL-05	ug/l	40	--	20
Diisopropyl Ether	ND	RL-05	ug/l	10	--	20
Tert-Butyl Ethyl Ether	ND	RL-05	ug/l	10	--	20
Tert-Amyl Methyl Ether	ND	RL-05	ug/l	10	--	20
1,4-Dioxane	ND	R-05, RL-05	ug/l	1000	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99	RL-05	70-130
Toluene-d8	99	RL-05	70-130
4-Bromofluorobenzene	89	RL-05	70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571940
Report Date: 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-08
Client ID: 045163-MW108
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/12/25 11:30
Date Received: 11/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 15:27
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/13/25 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-08 Date Collected: 11/12/25 11:30

Client ID: 045163-MW108 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND	R-05	ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571940
Report Date: 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-08
Client ID: 045163-MW108
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/12/25 11:30
Date Received: 11/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND	R-05	ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	93		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571940
Report Date: 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-09
Client ID: 045163-GEO-4
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/12/25 12:40
Date Received: 11/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 18:59
Analyst: EEH
Extraction Method: EPA 5030B
Extraction Date: 11/13/25 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-05	ug/l	500	--	100
1,1-Dichloroethane	ND	RL-05	ug/l	100	--	100
Chloroform	ND	RL-05	ug/l	200	--	100
Carbon tetrachloride	ND	RL-05	ug/l	100	--	100
1,2-Dichloropropane	ND	RL-05	ug/l	100	--	100
Chlorodibromomethane	ND	RL-05	ug/l	50	--	100
1,1,2-Trichloroethane	ND	RL-05	ug/l	100	--	100
Tetrachloroethene	8500	RL-05	ug/l	100	--	100
Chlorobenzene	ND	RL-05	ug/l	100	--	100
Trichlorofluoromethane	ND	RL-05	ug/l	200	--	100
1,2-Dichloroethane	ND	RL-05	ug/l	100	--	100
1,1,1-Trichloroethane	ND	RL-05	ug/l	100	--	100
Bromodichloromethane	ND	RL-05	ug/l	100	--	100
trans-1,3-Dichloropropene	ND	RL-05	ug/l	40	--	100
cis-1,3-Dichloropropene	ND	RL-05	ug/l	40	--	100
1,1-Dichloropropene	ND	RL-05	ug/l	50	--	100
Bromoform	ND	RL-05	ug/l	100	--	100
1,1,2,2-Tetrachloroethane	ND	RL-05	ug/l	50	--	100
Benzene	ND	RL-05	ug/l	100	--	100
Toluene	ND	RL-05	ug/l	100	--	100
Ethylbenzene	ND	RL-05	ug/l	100	--	100
Chloromethane	ND	RL-05	ug/l	200	--	100
Bromomethane	ND	RL-05	ug/l	200	--	100
Vinyl chloride	ND	RL-05	ug/l	200	--	100
Chloroethane	ND	RL-05	ug/l	200	--	100
1,1-Dichloroethene	ND	RL-05	ug/l	100	--	100
trans-1,2-Dichloroethene	ND	RL-05	ug/l	100	--	100
Trichloroethene	ND	RL-05	ug/l	100	--	100

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-09 Date Collected: 11/12/25 12:40

Client ID: 045163-GEO-4 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND	RL-05	ug/l	100	--	100
1,3-Dichlorobenzene	ND	RL-05	ug/l	100	--	100
1,4-Dichlorobenzene	ND	RL-05	ug/l	100	--	100
Methyl tert-butyl ether	ND	RL-05	ug/l	100	--	100
p/m-Xylene	ND	RL-05	ug/l	200	--	100
o-Xylene	ND	RL-05	ug/l	100	--	100
cis-1,2-Dichloroethene	ND	RL-05	ug/l	100	--	100
Dibromomethane	ND	RL-05	ug/l	100	--	100
1,2,3-Trichloropropane	ND	RL-05	ug/l	200	--	100
Styrene	ND	RL-05	ug/l	100	--	100
Dichlorodifluoromethane	ND	RL-05	ug/l	200	--	100
Acetone	ND	RL-05	ug/l	1000	--	100
Carbon disulfide	ND	RL-05	ug/l	500	--	100
2-Butanone	ND	RL-05	ug/l	1000	--	100
4-Methyl-2-pentanone	ND	RL-05	ug/l	1000	--	100
2-Hexanone	ND	RL-05	ug/l	1000	--	100
Bromochloromethane	ND	RL-05	ug/l	100	--	100
Tetrahydrofuran	ND	RL-05	ug/l	200	--	100
2,2-Dichloropropane	ND	RL-05	ug/l	100	--	100
1,2-Dibromoethane	ND	RL-05	ug/l	50	--	100
1,3-Dichloropropane	ND	RL-05	ug/l	50	--	100
1,1,1,2-Tetrachloroethane	ND	RL-05	ug/l	100	--	100
Bromobenzene	ND	RL-05	ug/l	100	--	100
n-Butylbenzene	ND	RL-05	ug/l	100	--	100
sec-Butylbenzene	ND	RL-05	ug/l	100	--	100
tert-Butylbenzene	ND	RL-05	ug/l	100	--	100
o-Chlorotoluene	ND	RL-05	ug/l	100	--	100
p-Chlorotoluene	ND	RL-05	ug/l	100	--	100
1,2-Dibromo-3-chloropropane	ND	RL-05	ug/l	200	--	100
Hexachlorobutadiene	ND	RL-05	ug/l	60	--	100
Isopropylbenzene	ND	RL-05	ug/l	100	--	100
p-Isopropyltoluene	ND	RL-05	ug/l	100	--	100
Naphthalene	ND	R-05, RL-05	ug/l	200	--	100
n-Propylbenzene	ND	RL-05	ug/l	100	--	100
1,2,3-Trichlorobenzene	ND	RL-05	ug/l	200	--	100
1,2,4-Trichlorobenzene	ND	RL-05	ug/l	100	--	100
1,3,5-Trimethylbenzene	ND	RL-05	ug/l	100	--	100

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-09 Date Collected: 11/12/25 12:40

Client ID: 045163-GEO-4 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND	RL-05	ug/l	100	--	100
Diethyl Ether	ND	RL-05	ug/l	200	--	100
Diisopropyl Ether	ND	RL-05	ug/l	50	--	100
Tert-Butyl Ethyl Ether	ND	RL-05	ug/l	50	--	100
Tert-Amyl Methyl Ether	ND	RL-05	ug/l	50	--	100
1,4-Dioxane	ND	R-05, RL-05	ug/l	5000	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95	RL-05	70-130
Toluene-d8	98	RL-05	70-130
4-Bromofluorobenzene	92	RL-05	70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571940
Report Date: 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-10
Client ID: 045163-MW106
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/12/25 10:20
Date Received: 11/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 15:53
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/13/25 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	1.0		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	4.4		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	1.6		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	3.3		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-10 Date Collected: 11/12/25 10:20

Client ID: 045163-MW106 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND	R-05	ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-10 Date Collected: 11/12/25 10:20

Client ID: 045163-MW106 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND	R-05	ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	89		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571940
Report Date: 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-11
Client ID: 045163-GEO-5
Sample Location: SOMERVILLE, MASSACHUSETTS

Date Collected: 11/12/25 13:00
Date Received: 11/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 16:47
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/13/25 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	170		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	2.8		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-11 Date Collected: 11/12/25 13:00

Client ID: 045163-GEO-5 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND	R-05	ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-11 Date Collected: 11/12/25 13:00

Client ID: 045163-GEO-5 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND	R-05	ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	91		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571940
Report Date: 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-12
Client ID: 045163-MW107
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/12/25 13:05
Date Received: 11/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 16:20
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/13/25 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	2.2		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-12 Date Collected: 11/12/25 13:05

Client ID: 045163-MW107 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND	R-05	ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-12 Date Collected: 11/12/25 13:05

Client ID: 045163-MW107 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND	R-05	ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	93		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571940
Report Date: 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-13
Client ID: 045163-MW902
Sample Location: SOMERVILLE, MASSACHUSETTS

Date Collected: 11/12/25 12:00
Date Received: 11/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/14/25 19:26
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/13/25 15:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-05	ug/l	2000	--	400
1,1-Dichloroethane	ND	RL-05	ug/l	400	--	400
Chloroform	ND	RL-05	ug/l	800	--	400
Carbon tetrachloride	ND	RL-05	ug/l	400	--	400
1,2-Dichloropropane	ND	RL-05	ug/l	400	--	400
Chlorodibromomethane	ND	RL-05	ug/l	200	--	400
1,1,2-Trichloroethane	ND	RL-05	ug/l	400	--	400
Tetrachloroethene	45000	RL-05	ug/l	400	--	400
Chlorobenzene	ND	RL-05	ug/l	400	--	400
Trichlorofluoromethane	ND	RL-05	ug/l	800	--	400
1,2-Dichloroethane	ND	RL-05	ug/l	400	--	400
1,1,1-Trichloroethane	ND	RL-05	ug/l	400	--	400
Bromodichloromethane	ND	RL-05	ug/l	400	--	400
trans-1,3-Dichloropropene	ND	RL-05	ug/l	160	--	400
cis-1,3-Dichloropropene	ND	RL-05	ug/l	160	--	400
1,1-Dichloropropene	ND	RL-05	ug/l	200	--	400
Bromoform	ND	RL-05	ug/l	400	--	400
1,1,2,2-Tetrachloroethane	ND	RL-05	ug/l	200	--	400
Benzene	ND	RL-05	ug/l	400	--	400
Toluene	ND	RL-05	ug/l	400	--	400
Ethylbenzene	ND	RL-05	ug/l	400	--	400
Chloromethane	ND	RL-05	ug/l	800	--	400
Bromomethane	ND	RL-05	ug/l	800	--	400
Vinyl chloride	ND	RL-05	ug/l	800	--	400
Chloroethane	ND	RL-05	ug/l	800	--	400
1,1-Dichloroethene	ND	RL-05	ug/l	400	--	400
trans-1,2-Dichloroethene	ND	RL-05	ug/l	400	--	400
Trichloroethene	2700	RL-05	ug/l	400	--	400

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-13 Date Collected: 11/12/25 12:00

Client ID: 045163-MW902 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND	RL-05	ug/l	400	--	400
1,3-Dichlorobenzene	ND	RL-05	ug/l	400	--	400
1,4-Dichlorobenzene	ND	RL-05	ug/l	400	--	400
Methyl tert-butyl ether	ND	RL-05	ug/l	400	--	400
p/m-Xylene	ND	RL-05	ug/l	800	--	400
o-Xylene	ND	RL-05	ug/l	400	--	400
cis-1,2-Dichloroethene	ND	RL-05	ug/l	400	--	400
Dibromomethane	ND	RL-05	ug/l	400	--	400
1,2,3-Trichloropropane	ND	RL-05	ug/l	800	--	400
Styrene	ND	RL-05	ug/l	400	--	400
Dichlorodifluoromethane	ND	RL-05	ug/l	800	--	400
Acetone	ND	RL-05	ug/l	4000	--	400
Carbon disulfide	ND	RL-05	ug/l	2000	--	400
2-Butanone	ND	RL-05	ug/l	4000	--	400
4-Methyl-2-pentanone	ND	RL-05	ug/l	4000	--	400
2-Hexanone	ND	RL-05	ug/l	4000	--	400
Bromochloromethane	ND	RL-05	ug/l	400	--	400
Tetrahydrofuran	ND	RL-05	ug/l	800	--	400
2,2-Dichloropropane	ND	RL-05	ug/l	400	--	400
1,2-Dibromoethane	ND	RL-05	ug/l	200	--	400
1,3-Dichloropropane	ND	RL-05	ug/l	200	--	400
1,1,1,2-Tetrachloroethane	ND	RL-05	ug/l	400	--	400
Bromobenzene	ND	RL-05	ug/l	400	--	400
n-Butylbenzene	ND	RL-05	ug/l	400	--	400
sec-Butylbenzene	ND	RL-05	ug/l	400	--	400
tert-Butylbenzene	ND	RL-05	ug/l	400	--	400
o-Chlorotoluene	ND	RL-05	ug/l	400	--	400
p-Chlorotoluene	ND	RL-05	ug/l	400	--	400
1,2-Dibromo-3-chloropropane	ND	RL-05	ug/l	800	--	400
Hexachlorobutadiene	ND	RL-05	ug/l	240	--	400
Isopropylbenzene	ND	RL-05	ug/l	400	--	400
p-Isopropyltoluene	ND	RL-05	ug/l	400	--	400
Naphthalene	ND	R-05, RL-05	ug/l	800	--	400
n-Propylbenzene	ND	RL-05	ug/l	400	--	400
1,2,3-Trichlorobenzene	ND	RL-05	ug/l	800	--	400
1,2,4-Trichlorobenzene	ND	RL-05	ug/l	400	--	400
1,3,5-Trimethylbenzene	ND	RL-05	ug/l	400	--	400

Project Name: 50 TUFTS STREET **Lab Number:** L2571940

Project Number: 045163 **Report Date:** 11/26/25

SAMPLE RESULTS

Lab ID: L2571940-13 Date Collected: 11/12/25 12:00

Client ID: 045163-MW902 Date Received: 11/12/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND	RL-05	ug/l	400	--	400
Diethyl Ether	ND	RL-05	ug/l	800	--	400
Diisopropyl Ether	ND	RL-05	ug/l	200	--	400
Tert-Butyl Ethyl Ether	ND	RL-05	ug/l	200	--	400
Tert-Amyl Methyl Ether	ND	RL-05	ug/l	200	--	400
1,4-Dioxane	ND	R-05, RL-05	ug/l	20000	--	400

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99	RL-05	70-130
Toluene-d8	96	RL-05	70-130
4-Bromofluorobenzene	95	RL-05	70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571940
Report Date: 11/26/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/14/25 11:01
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/13/25 15:02

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 01-05,07-13 Batch: WG2143808-1					
Methylene chloride	ND		ug/l	5.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	2.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Chlorodibromomethane	ND		ug/l	0.50	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.40	--
cis-1,3-Dichloropropene	ND		ug/l	0.40	--
1,1-Dichloropropene	ND		ug/l	0.50	--
Bromoform	ND		ug/l	1.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--
Benzene	ND		ug/l	1.0	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571940
Report Date: 11/26/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/14/25 11:01
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/13/25 15:02

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 01-05,07-13 Batch: WG2143808-1					
Vinyl chloride	ND		ug/l	2.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert-butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	1.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	10	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	10	--
4-Methyl-2-pentanone	ND		ug/l	10	--
2-Hexanone	ND		ug/l	10	--
Bromochloromethane	ND		ug/l	1.0	--
Tetrahydrofuran	ND		ug/l	2.0	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571940
Report Date: 11/26/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/14/25 11:01
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/13/25 15:02

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 01-05,07-13 Batch: WG2143808-1					
2,2-Dichloropropane	ND		ug/l	1.0	--
1,2-Dibromoethane	ND		ug/l	0.50	--
1,3-Dichloropropane	ND		ug/l	0.50	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	1.0	--
n-Butylbenzene	ND		ug/l	1.0	--
sec-Butylbenzene	ND		ug/l	1.0	--
tert-Butylbenzene	ND		ug/l	1.0	--
o-Chlorotoluene	ND		ug/l	1.0	--
p-Chlorotoluene	ND		ug/l	1.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	1.0	--
p-Isopropyltoluene	ND		ug/l	1.0	--
Naphthalene	ND	R-05	ug/l	2.0	--
n-Propylbenzene	ND		ug/l	1.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--
Diethyl Ether	ND		ug/l	2.0	--
Diisopropyl Ether	ND		ug/l	0.50	--
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571940
Report Date: 11/26/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/14/25 11:01
Analyst: EEH

Extraction Method: EPA 5030B
Extraction Date: 11/13/25 15:02

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 01-05,07-13 Batch: WG2143808-1					
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--
1,4-Dioxane	ND	R-05	ug/l	50	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571940
Report Date: 11/26/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/17/25 23:45
Analyst: MFF

Extraction Method: EPA 5030B
Extraction Date: 11/17/25 05:25

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 06 Batch: WG2143809-1					
Methylene chloride	ND		ug/l	5.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	2.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Chlorodibromomethane	ND		ug/l	0.50	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.40	--
cis-1,3-Dichloropropene	ND		ug/l	0.40	--
1,1-Dichloropropene	ND		ug/l	0.50	--
Bromoform	ND		ug/l	1.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--
Benzene	ND		ug/l	1.0	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	2.0	--

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571940
Report Date: 11/26/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/17/25 23:45
Analyst: MFF

Extraction Method: EPA 5030B
Extraction Date: 11/17/25 05:25

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 06 Batch: WG2143809-1					
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert-butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	1.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	10	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	10	--
4-Methyl-2-pentanone	ND		ug/l	10	--
2-Hexanone	ND		ug/l	10	--
Bromochloromethane	ND		ug/l	1.0	--
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	1.0	--
1,2-Dibromoethane	ND		ug/l	0.50	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571940
Report Date: 11/26/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/17/25 23:45
Analyst: MFF

Extraction Method: EPA 5030B
Extraction Date: 11/17/25 05:25

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 06 Batch: WG2143809-1					
1,3-Dichloropropane	ND		ug/l	0.50	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	1.0	--
n-Butylbenzene	ND		ug/l	1.0	--
sec-Butylbenzene	ND		ug/l	1.0	--
tert-Butylbenzene	ND		ug/l	1.0	--
o-Chlorotoluene	ND		ug/l	1.0	--
p-Chlorotoluene	ND		ug/l	1.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	1.0	--
p-Isopropyltoluene	ND		ug/l	1.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	1.0	--
1,2,3-Trichlorobenzene	ND	R-05	ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--
Diethyl Ether	ND		ug/l	2.0	--
Diisopropyl Ether	ND		ug/l	0.50	--
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--
1,4-Dioxane	ND	V-05	ug/l	50	--

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571940
Report Date: 11/26/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/17/25 23:45
Analyst: MFF

Extraction Method: EPA 5030B
Extraction Date: 11/17/25 05:25

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 06 Batch: WG2143809-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	84		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571940
Report Date: 11/26/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-05,07-13 Batch: WG2143808-2 WG2143808-3								
Methylene chloride	85		96		70-130	12.2		20
1,1-Dichloroethane	104		107		70-130	2.55		20
Chloroform	107		108		70-130	0.279		20
Carbon tetrachloride	109		108		70-130	0.645		20
1,2-Dichloropropane	101		105		70-130	3.98		20
Chlorodibromomethane	110		114		70-130	4.10		20
1,1,2-Trichloroethane	105		109		70-130	4.02		20
Tetrachloroethene	111		114		70-130	2.32		20
Chlorobenzene	106		108		70-130	2.06		20
Trichlorofluoromethane	93		95		70-130	2.56		20
1,2-Dichloroethane	102		103		70-130	1.46		20
1,1,1-Trichloroethane	108		107		70-130	0.279		20
Bromodichloromethane	110		110		70-130	0.364		20
trans-1,3-Dichloropropene	120	V-20	121	V-20	70-130	0.249		20
cis-1,3-Dichloropropene	113		114		70-130	1.58		20
1,1-Dichloropropene	105		108		70-130	2.90		20
Bromoform	109		111		70-130	2.18		20
1,1,2,2-Tetrachloroethane	98		94		70-130	4.59		20
Benzene	106		108		70-130	2.15		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571940
Report Date: 11/26/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-05,07-13 Batch: WG2143808-2 WG2143808-3								
Toluene	102		105		70-130	2.22		20
Ethylbenzene	106		108		70-130	1.40		20
Chloromethane	101		116		40-160	13.9		20
Bromomethane	82		82		40-160	0		20
Vinyl chloride	88		92		70-130	3.45		20
Chloroethane	81		84		70-130	3.02		20
1,1-Dichloroethene	82		84		70-130	2.52		20
trans-1,2-Dichloroethene	87		98		70-130	12.4		20
Trichloroethene	104		107		70-130	2.37		20
1,2-Dichlorobenzene	103		110		70-130	6.56		20
1,3-Dichlorobenzene	104		107		70-130	2.37		20
1,4-Dichlorobenzene	102		101		70-130	0.689		20
Methyl tert-butyl ether	95		102		70-130	7.23		20
p/m-Xylene	104		107		70-130	2.46		20
o-Xylene	105		107		70-130	1.88		20
cis-1,2-Dichloroethene	104		105		70-130	1.05		20
Dibromomethane	104		100		70-130	4.21		20
1,2,3-Trichloropropane	88		90		70-130	2.81		20
Styrene	106		108		70-130	1.59		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571940
Report Date: 11/26/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab	Associated sample(s): 01-05,07-13		Batch: WG2143808-2 WG2143808-3					
Dichlorodifluoromethane	97		101		40-160	3.53		20
Acetone	80		84		40-160	5.14		20
Carbon disulfide	85		95		70-130	10.6		20
2-Butanone	108		95		40-160	12.8		20
4-Methyl-2-pentanone	92		94		40-160	1.65		20
2-Hexanone	102		93		40-160	9.84		20
Bromochloromethane	112		113		70-130	0.178		20
Tetrahydrofuran	108		94		70-130	13.8		20
2,2-Dichloropropane	108		109		70-130	0.276		20
1,2-Dibromoethane	108		107		70-130	0.836		20
1,3-Dichloropropane	102		107		70-130	5.36		20
1,1,1,2-Tetrachloroethane	112	V-20	115	V-20	70-130	2.72		20
Bromobenzene	101		100		70-130	1.59		20
n-Butylbenzene	106		102		70-130	2.88		20
sec-Butylbenzene	104		105		70-130	0.860		20
tert-Butylbenzene	104		107		70-130	3.22		20
o-Chlorotoluene	100		108		70-130	7.67		20
p-Chlorotoluene	103		104		70-130	1.07		20
1,2-Dibromo-3-chloropropane	97		101		70-130	4.16		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571940
Report Date: 11/26/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-05,07-13 Batch: WG2143808-2 WG2143808-3								
Hexachlorobutadiene	127	V-20	126	V-20	70-130	0.316		20
Isopropylbenzene	107		110		70-130	3.50		20
p-Isopropyltoluene	104		106		70-130	1.81		20
Naphthalene	114	R-05	86	R-05	70-130	**28.5**	Q	20
n-Propylbenzene	103		106		70-130	2.20		20
1,2,3-Trichlorobenzene	122		109		70-130	11.3		20
1,2,4-Trichlorobenzene	122		107		70-130	13.9		20
1,3,5-Trimethylbenzene	104		108		70-130	3.39		20
1,2,4-Trimethylbenzene	104		104		70-130	0.673		20
Diethyl Ether	94		99		70-130	4.97		20
Diisopropyl Ether	108		112		70-130	3.83		20
Tert-Butyl Ethyl Ether	111		112		70-130	0.359		20
Tert-Amyl Methyl Ether	115		102		70-130	12.4		20
1,4-Dioxane	60	L-14, R-05	93	R-05	40-160	**43.4**	Q	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571940
Report Date: 11/26/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab	Associated sample(s): 01-05,07-13		Batch: WG2143808-2 WG2143808-3					

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		95		70-130
Toluene-d8	97		100		70-130
4-Bromofluorobenzene	97		100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571940
Report Date: 11/26/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab	Associated sample(s): 06		Batch: WG2143809-2 WG2143809-3					
Methylene chloride	91		91		70-130	0.110		20
1,1-Dichloroethane	104		106		70-130	2.57		20
Chloroform	109		108		70-130	0.646		20
Carbon tetrachloride	119		119		70-130	0.0841		20
1,2-Dichloropropane	99		104		70-130	5.13		20
Chlorodibromomethane	113		109		70-130	4.14		20
1,1,2-Trichloroethane	106		103		70-130	3.63		20
Tetrachloroethene	109		114		70-130	4.75		20
Chlorobenzene	105		104		70-130	1.05		20
Trichlorofluoromethane	100		104		70-130	4.11		20
1,2-Dichloroethane	108		105		70-130	3.29		20
1,1,1-Trichloroethane	111		112		70-130	1.43		20
Bromodichloromethane	114		111		70-130	2.49		20
trans-1,3-Dichloropropene	119		108		70-130	9.52		20
cis-1,3-Dichloropropene	109		104		70-130	4.32		20
1,1-Dichloropropene	102		102		70-130	0.489		20
Bromoform	111		112		70-130	1.08		20
1,1,2,2-Tetrachloroethane	90		91		70-130	0.882		20
Benzene	103		101		70-130	2.15		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571940
Report Date: 11/26/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab	Associated sample(s): 06		Batch: WG2143809-2 WG2143809-3					
Toluene	100		99		70-130	0.302		20
Ethylbenzene	102		100		70-130	1.89		20
Chloromethane	104		104		40-160	0.288		20
Bromomethane	91		97		40-160	6.29		20
Vinyl chloride	88		87		70-130	1.03		20
Chloroethane	78		79		70-130	0.510		20
1,1-Dichloroethene	86		87		70-130	1.85		20
trans-1,2-Dichloroethene	94		92		70-130	1.51		20
Trichloroethene	100		104		70-130	4.02		20
1,2-Dichlorobenzene	98		95		70-130	3.94		20
1,3-Dichlorobenzene	99		99		70-130	0.202		20
1,4-Dichlorobenzene	98		85		70-130	13.8		20
Methyl tert-butyl ether	103		99		70-130	4.37		20
p/m-Xylene	100		99		70-130	0.553		20
o-Xylene	104		100		70-130	4.12		20
cis-1,2-Dichloroethene	99		103		70-130	3.56		20
Dibromomethane	103		103		70-130	0.0974		20
1,2,3-Trichloropropane	82		76		70-130	7.51		20
Styrene	102		98		70-130	4.60		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571940
Report Date: 11/26/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab	Associated sample(s): 06		Batch: WG2143809-2 WG2143809-3					
Dichlorodifluoromethane	105	V-20	103	V-20	40-160	1.83		20
Acetone	89		83		40-160	7.68		20
Carbon disulfide	85		87		70-130	1.37		20
2-Butanone	96		85		40-160	11.8		20
4-Methyl-2-pentanone	94		84		40-160	11.3		20
2-Hexanone	94		77		40-160	19.8		20
Bromochloromethane	109		114		70-130	4.56		20
Tetrahydrofuran	83		82		70-130	1.09		20
2,2-Dichloropropane	104		102		70-130	1.75		20
1,2-Dibromoethane	104		100		70-130	3.92		20
1,3-Dichloropropane	101		98		70-130	2.81		20
1,1,1,2-Tetrachloroethane	112		114		70-130	2.22		20
Bromobenzene	96		98		70-130	1.65		20
n-Butylbenzene	87		89		70-130	2.49		20
sec-Butylbenzene	99		95		70-130	4.25		20
tert-Butylbenzene	102		100		70-130	1.79		20
o-Chlorotoluene	100		103		70-130	3.75		20
p-Chlorotoluene	100		101		70-130	0.597		20
1,2-Dibromo-3-chloropropane	105		95		70-130	10.0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571940
Report Date: 11/26/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab	Associated sample(s): 06		Batch: WG2143809-2 WG2143809-3					
Hexachlorobutadiene	123		119		70-130	2.64		20
Isopropylbenzene	104		105		70-130	1.25		20
p-Isopropyltoluene	100		97		70-130	3.36		20
Naphthalene	103		87		70-130	16.4		20
n-Propylbenzene	100		99		70-130	0.503		20
1,2,3-Trichlorobenzene	107	R-05	84	R-05	70-130	**24.6**	Q	20
1,2,4-Trichlorobenzene	98		88		70-130	10.8		20
1,3,5-Trimethylbenzene	101		100		70-130	1.29		20
1,2,4-Trimethylbenzene	99		96		70-130	3.60		20
Diethyl Ether	94		93		70-130	0.107		20
Diisopropyl Ether	103		102		70-130	0.878		20
Tert-Butyl Ethyl Ether	107		105		70-130	1.89		20
Tert-Amyl Methyl Ether	98		97		70-130	1.24		20
1,4-Dioxane	99	V-05	70	V-05	40-160	**34.1**	Q	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2571940
Report Date: 11/26/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab	Associated sample(s): 06		Batch: WG2143809-2 WG2143809-3					

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		104		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	98		99		70-130

Project Name:	50 TUFTS STREET	**Lab Number:**	L2571940
Project Number:	045163	**Report Date:**	11/26/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	50 TUFTS STREET	**Lab Number:**	L2571940
Project Number:	045163	**Report Date:**	11/26/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	50 TUFTS STREET	**Lab Number:**	L2571940
Project Number:	045163	**Report Date:**	11/26/25

Data Qualifiers

ND	- Not detected at the reporting limit (RL) for the sample.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
S	- Analytical results are from modified screening analysis.
V	- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
Z	- The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
L-14	- Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
R-05	- Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-05	- Elevated reporting limit due to high concentration of target compounds. MA CAM reporting limit not met.
RL-07	- Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
V-05	- Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	- Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Report Format: Data Usability Report

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2571940
Report Date: 11/26/25

REFERENCES

141 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA and IIB, November 2021.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY kY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
MA M-MA00030, CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

Chain-of-Custody Record

Laboratory: Pace

Laboratory Job # (Lab use only) L2571940

GEI Consultants
400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000

Project Information

Project Name: Tufts Street
Project Number: 045163
Project Location: Somerville, Massachusetts
Project Manager: Chris Coner
cconer@geiconsultants.com

Send Report to: Chris Coner, Davis Miller
labdata@geiconsultants.com

Preservative

HCl	HCl	None	NaOH & Zn Acetate	H3PO4	HNO3	H2SO4			

Sample Handling

Samples Field Filtered: YES (NO) NA

Sampled Shipped With Ice: (YES) NO

MCP PRESUMPTIVE CERTAINTY AND MCP ANALYTICAL METHODS REQUIRED: (YES) NO

STATE AND FEDERAL REGULATORY REQUIREMENTS/REPORT LIMITS

State/Federal Program: (MA) 401WQC Other _____ NH RI CT NY ME

MA MCP Criteria are Method 1 S-1 and GW-2/GW-3. Circle if GW-1 is required.

Lab Sample Number	GEI Sample ID	Collection Date	Collection Time	Matrix	No. of Bottles	Sampler(s) Initials	VOCs 8260	Methane, Ethane, Ethene	Alkalinity, Cl-, TRCs, Fe II, N-NO3, SO4, Surfactants	Sulfide	TOC	Manganese	NO2 & NO3 as Nitrogen				Sample Specific Remarks
	045163-MW122	11/12/25	8:25	GW	3	CMG	X										
	045163-MW111R		8:30			JWG	X										
	045163-SHMW-2R		9:40			CMG	X										
	045163-MW201		9:15			JWG	X										
	045163-MW404		11:10			CMG	X										
	045163-MW202		11:55			JWG	X										
	045163-GEO-6		12:15			CMG	X										
	045163-MW108		11:30			NMT	X										
	045163-GEO-4		12:40			NMT	X										
	045163-MW106		10:20			NMT	X										
	045163-GEO-5		13:00			JWG	X										
	045163-MW107		13:05			CMG	X										

Relinquished by sampler: (signature)	Date	Time	Received by: (signature)
1 CMcCallinGW	11/12/25	1435	1 Rob Mancuso
2 Rob Mancuso	11-12-25	1750	2
3			3
4			4
5			5

Turnaround Time (Business days):

5-Day X 4-Day ____ 3-Day ____
2-Day ____ 1-Day ____ Other ____

Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

Sample Matrix Abbreviations: SO = Soil GW = Groundwater SW = Surface Water SD = Sediment CO = Concrete PC = Paint Chip CLK = Caulk

Chain-of-Custody Record

Laboratory: Pace

Laboratory Job # (Lab use only): L2571940

GEI Consultants
400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000

Project Information

Project Name: Tufts Street
Project Number: 045163
Project Location: Somerville, Massachusetts
Project Manager: Chris Coner
cconer@geiconsultants.com
Send Report to: Chris Coner; Davis Miller
labdata@geiconsultants.com

Page 1 of 1

Preservative

HCl	HCl	None	NaOH & Zn Acetate	H3PO4	HNO3	H2SO4			

Sample Handling

Samples Field Filtered: YES (NO) NA

Sampled Shipped With Ice: (YES) NO

MCP PRESUMPTIVE CERTAINTY AND MCP ANALYTICAL METHODS REQUIRED: (YES) NO

STATE AND FEDERAL REGULATORY REQUIREMENTS/REPORT LIMITS

State/Federal Program: (MA) 401WQC Other ____ NH RI CT NY ME

MA MCP Criteria are Method 1 S-1 and GW-2/GW-3. Circle if GW-1 is required.

Lab Sample Number	GEI Sample ID	Collection Date	Collection Time	Matrix	No. of Bottles	Sampler(s) Initials	VOCs 8260	Methane, Ethene, Ethane	Alkalinity, Cl, TSO4, Fe II, N, NO3, SO4, Sulfocyanins	Sulfide	TOC	Manganese	NO2 & NO3 as Nitrogen				Sample Specific Remarks
	045163-MW902	11/12/25	12:00	GW	3	CMG	X										

Relinquished by sampler: (signature)	Date	Time	Received by: (signature)
1 C McCallum-Gunn	11/12/25	1435	1 Rob Maerto
2 Rob Maerto	11/12/25	1750	2
3			3
4			4
5			5

Turnaround Time (Business days):

5-Day X 4-Day ____ 3-Day ____
2-Day ____ 1-Day ____ Other ____

Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

Sample Matrix Abbreviations: SO = Soil GW = Groundwater SW = Surface Water SD = Sediment CO = Concrete PC = Paint Chip CLK = Caulk

ANALYTICAL REPORT

Lab Number:	L2572383
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	50 TUFTS STREET
Project Number:	045163
Report Date:	11/20/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2572383
Report Date: 11/20/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2572383-01	045163-MW115R	WATER	SOMERVILLE, MASSACHUSETTS	11/13/25 07:20	11/13/25
L2572383-02	045163-MW109	WATER	SOMERVILLE, MASSACHUSETTS	11/13/25 07:50	11/13/25
L2572383-03	045163-GEO-1	WATER	SOMERVILLE, MASSACHUSETTS	11/13/25 08:40	11/13/25
L2572383-04	045163-MW401D	WATER	SOMERVILLE, MASSACHUSETTS	11/13/25 09:40	11/13/25
L2572383-05	045163-MW401S	WATER	SOMERVILLE, MASSACHUSETTS	11/13/25 10:00	11/13/25

Project Name: 50 TUFTS STREET **Lab Number:** L2572383

Project Number: 045163 **Report Date:** 11/20/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E 1.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E 2.	PFAS Only: Were aqueous samples extracted without filtering?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits/lower limits of quantitation at or below all CAM reporting limits/lower limits of quantitation specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	50 TUFTS STREET	**Lab Number:**	L2572383
Project Number:	045163	**Report Date:**	11/20/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

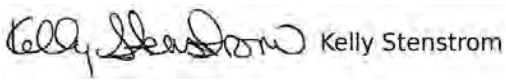
When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Kelly Stenstrom

Title: Technical Director/Representative Date: 11/20/25

QC OUTLIER SUMMARY REPORT

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2572383
Report Date: 11/20/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
MCP Volatile Organics by GC/MS - East Longmeadow Lab								
8260D	Batch QC	WG2144590-2	Chloromethane	LCS	173	40-160	01-05	potential high bias
8260D	Batch QC	WG2144590-2	Hexachlorobutadiene	LCS	134	70-130	01-05	potential high bias
8260D	Batch QC	WG2144590-3	Chloromethane	LCSD	170	40-160	01-05	potential high bias
8260D	Batch QC	WG2144590-3	1,2-Dibromo-3-chloropropane	LCSD	22.2	70-130	01-05	non-directional bias
8260D	Batch QC	WG2144590-3	Hexachlorobutadiene	LCSD	134	70-130	01-05	potential high bias
8260D	Batch QC (L2572383-03)	WG2144590-4	Chloromethane	MS	236	70-130	01-05	potential high bias
8260D	Batch QC (L2572383-03)	WG2144590-4	Bromomethane	MS	69	70-130	01-05	potential low bias
8260D	Batch QC (L2572383-03)	WG2144590-4	1,4-Dioxane	MS	68	70-130	01-05	potential low bias
8260D	Batch QC (L2572383-03)	WG2144590-5	Tetrachloroethene	MSD	159	70-130	01-05	potential high bias
8260D	Batch QC (L2572383-03)	WG2144590-5	Chloromethane	MSD	228	70-130	01-05	potential high bias
8260D	Batch QC (L2572383-03)	WG2144590-5	Bromomethane	MSD	65	70-130	01-05	potential low bias

ORGANICS

VOLATILES

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2572383
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-01
Client ID: 045163-MW115R
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/13/25 07:20
Date Received: 11/13/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/18/25 11:18
Analyst: MFF
Extraction Method: EPA 5030B
Extraction Date: 11/18/25 08:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2572383

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-01 Date Collected: 11/13/25 07:20

Client ID: 045163-MW115R Date Received: 11/13/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND	V-05	ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND	R-05	ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2572383

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-01 Date Collected: 11/13/25 07:20

Client ID: 045163-MW115R Date Received: 11/13/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2572383
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-02
Client ID: 045163-MW109
Sample Location: SOMERVILLE, MASSACHUSETTS

Date Collected: 11/13/25 07:50
Date Received: 11/13/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/18/25 11:44
Analyst: MFF

Extraction Method: EPA 5030B
Extraction Date: 11/18/25 08:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07	ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	17		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	1.1		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2572383

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-02 Date Collected: 11/13/25 07:50

Client ID: 045163-MW109 Date Received: 11/13/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND	V-05	ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND	R-05	ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2572383

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-02 Date Collected: 11/13/25 07:50

Client ID: 045163-MW109 Date Received: 11/13/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	88		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2572383
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-03
Client ID: 045163-GEO-1
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/13/25 08:40
Date Received: 11/13/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/18/25 12:11
Analyst: MFF
Extraction Method: EPA 5030B
Extraction Date: 11/18/25 08:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND		ug/l	5.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	37		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND	MS-07A	ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2572383

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-03 Date Collected: 11/13/25 08:40

Client ID: 045163-GEO-1 Date Received: 11/13/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Trichloroethene	2.5		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	10	--	1
Carbon disulfide	ND		ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND	V-05	ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND	R-05	ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2572383

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-03 Date Collected: 11/13/25 08:40

Client ID: 045163-GEO-1 Date Received: 11/13/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	93		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2572383
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-04
Client ID: 045163-MW401D
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/13/25 09:40
Date Received: 11/13/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/18/25 17:03
Analyst: MFF
Extraction Method: EPA 5030B
Extraction Date: 11/18/25 08:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-05	ug/l	500	--	100
1,1-Dichloroethane	500	RL-05	ug/l	100	--	100
Chloroform	ND	RL-05	ug/l	200	--	100
Carbon tetrachloride	ND	RL-05	ug/l	100	--	100
1,2-Dichloropropane	ND	RL-05	ug/l	100	--	100
Chlorodibromomethane	ND	RL-05	ug/l	50	--	100
1,1,2-Trichloroethane	ND	RL-05	ug/l	100	--	100
Tetrachloroethene	12000	RL-05	ug/l	100	--	100
Chlorobenzene	ND	RL-05	ug/l	100	--	100
Trichlorofluoromethane	ND	RL-05	ug/l	200	--	100
1,2-Dichloroethane	ND	RL-05	ug/l	100	--	100
1,1,1-Trichloroethane	ND	RL-05	ug/l	100	--	100
Bromodichloromethane	ND	RL-05	ug/l	100	--	100
trans-1,3-Dichloropropene	ND	RL-05	ug/l	40	--	100
cis-1,3-Dichloropropene	ND	RL-05	ug/l	40	--	100
1,1-Dichloropropene	ND	RL-05	ug/l	50	--	100
Bromoform	ND	RL-05	ug/l	100	--	100
1,1,2,2-Tetrachloroethane	ND	RL-05	ug/l	50	--	100
Benzene	ND	RL-05	ug/l	100	--	100
Toluene	ND	RL-05	ug/l	100	--	100
Ethylbenzene	ND	RL-05	ug/l	100	--	100
Chloromethane	ND	RL-05	ug/l	200	--	100
Bromomethane	ND	RL-05	ug/l	200	--	100
Vinyl chloride	ND	RL-05	ug/l	200	--	100
Chloroethane	ND	RL-05	ug/l	200	--	100
1,1-Dichloroethene	140	RL-05	ug/l	100	--	100
trans-1,2-Dichloroethene	ND	RL-05	ug/l	100	--	100
Trichloroethene	2600	RL-05	ug/l	100	--	100

Project Name: 50 TUFTS STREET **Lab Number:** L2572383

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-04 Date Collected: 11/13/25 09:40

Client ID: 045163-MW401D Date Received: 11/13/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND	RL-05	ug/l	100	--	100
1,3-Dichlorobenzene	ND	RL-05	ug/l	100	--	100
1,4-Dichlorobenzene	ND	RL-05	ug/l	100	--	100
Methyl tert-butyl ether	ND	RL-05	ug/l	100	--	100
p/m-Xylene	ND	RL-05	ug/l	200	--	100
o-Xylene	ND	RL-05	ug/l	100	--	100
cis-1,2-Dichloroethene	400	RL-05	ug/l	100	--	100
Dibromomethane	ND	RL-05	ug/l	100	--	100
1,2,3-Trichloropropane	ND	RL-05	ug/l	200	--	100
Styrene	ND	RL-05	ug/l	100	--	100
Dichlorodifluoromethane	ND	RL-05	ug/l	200	--	100
Acetone	ND	RL-05	ug/l	1000	--	100
Carbon disulfide	ND	RL-05	ug/l	500	--	100
2-Butanone	ND	RL-05	ug/l	1000	--	100
4-Methyl-2-pentanone	ND	RL-05	ug/l	1000	--	100
2-Hexanone	ND	RL-05	ug/l	1000	--	100
Bromochloromethane	ND	RL-05	ug/l	100	--	100
Tetrahydrofuran	ND	V-05, RL-05	ug/l	200	--	100
2,2-Dichloropropane	ND	RL-05	ug/l	100	--	100
1,2-Dibromoethane	ND	RL-05	ug/l	50	--	100
1,3-Dichloropropane	ND	RL-05	ug/l	50	--	100
1,1,1,2-Tetrachloroethane	ND	RL-05	ug/l	100	--	100
Bromobenzene	ND	RL-05	ug/l	100	--	100
n-Butylbenzene	ND	RL-05	ug/l	100	--	100
sec-Butylbenzene	ND	RL-05	ug/l	100	--	100
tert-Butylbenzene	ND	RL-05	ug/l	100	--	100
o-Chlorotoluene	ND	RL-05	ug/l	100	--	100
p-Chlorotoluene	ND	RL-05	ug/l	100	--	100
1,2-Dibromo-3-chloropropane	ND	R-05, RL-05	ug/l	200	--	100
Hexachlorobutadiene	ND	RL-05	ug/l	60	--	100
Isopropylbenzene	ND	RL-05	ug/l	100	--	100
p-Isopropyltoluene	ND	RL-05	ug/l	100	--	100
Naphthalene	ND	RL-05	ug/l	200	--	100
n-Propylbenzene	ND	RL-05	ug/l	100	--	100
1,2,3-Trichlorobenzene	ND	RL-05	ug/l	200	--	100
1,2,4-Trichlorobenzene	ND	RL-05	ug/l	100	--	100

Project Name: 50 TUFTS STREET **Lab Number:** L2572383

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-04 Date Collected: 11/13/25 09:40

Client ID: 045163-MW401D Date Received: 11/13/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,3,5-Trimethylbenzene	ND	RL-05	ug/l	100	--	100
1,2,4-Trimethylbenzene	ND	RL-05	ug/l	100	--	100
Diethyl Ether	ND	RL-05	ug/l	200	--	100
Diisopropyl Ether	ND	RL-05	ug/l	50	--	100
Tert-Butyl Ethyl Ether	ND	RL-05	ug/l	50	--	100
Tert-Amyl Methyl Ether	ND	RL-05	ug/l	50	--	100
1,4-Dioxane	ND	RL-05	ug/l	5000	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107	RL-05	70-130
Toluene-d8	94	RL-05	70-130
4-Bromofluorobenzene	89	RL-05	70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2572383
Report Date: 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-05
Client ID: 045163-MW401S
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/13/25 10:00
Date Received: 11/13/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/18/25 17:29
Analyst: MFF
Extraction Method: EPA 5030B
Extraction Date: 11/18/25 08:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-07, RL-05	ug/l	25	--	5
1,1-Dichloroethane	7.8	RL-05	ug/l	5.0	--	5
Chloroform	ND	RL-05	ug/l	10	--	5
Carbon tetrachloride	ND	RL-05	ug/l	5.0	--	5
1,2-Dichloropropane	ND	RL-05	ug/l	5.0	--	5
Chlorodibromomethane	ND	RL-05	ug/l	2.5	--	5
1,1,2-Trichloroethane	ND	RL-05	ug/l	5.0	--	5
Tetrachloroethene	440	RL-05	ug/l	5.0	--	5
Chlorobenzene	ND	RL-05	ug/l	5.0	--	5
Trichlorofluoromethane	ND	RL-05	ug/l	10	--	5
1,2-Dichloroethane	ND	RL-05	ug/l	5.0	--	5
1,1,1-Trichloroethane	ND	RL-05	ug/l	5.0	--	5
Bromodichloromethane	ND	RL-05	ug/l	5.0	--	5
trans-1,3-Dichloropropene	ND	RL-05	ug/l	2.0	--	5
cis-1,3-Dichloropropene	ND	RL-05	ug/l	2.0	--	5
1,1-Dichloropropene	ND	RL-05	ug/l	2.5	--	5
Bromoform	ND	RL-05	ug/l	5.0	--	5
1,1,2,2-Tetrachloroethane	ND	RL-05	ug/l	2.5	--	5
Benzene	ND	RL-05	ug/l	5.0	--	5
Toluene	ND	RL-05	ug/l	5.0	--	5
Ethylbenzene	ND	RL-05	ug/l	5.0	--	5
Chloromethane	ND	RL-05	ug/l	10	--	5
Bromomethane	ND	RL-05	ug/l	10	--	5
Vinyl chloride	ND	RL-05	ug/l	10	--	5
Chloroethane	ND	RL-05	ug/l	10	--	5
1,1-Dichloroethene	ND	RL-05	ug/l	5.0	--	5
trans-1,2-Dichloroethene	ND	RL-05	ug/l	5.0	--	5

Project Name: 50 TUFTS STREET **Lab Number:** L2572383

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-05 Date Collected: 11/13/25 10:00

Client ID: 045163-MW401S Date Received: 11/13/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Trichloroethene	66	RL-05	ug/l	5.0	--	5
1,2-Dichlorobenzene	ND	RL-05	ug/l	5.0	--	5
1,3-Dichlorobenzene	ND	RL-05	ug/l	5.0	--	5
1,4-Dichlorobenzene	ND	RL-05	ug/l	5.0	--	5
Methyl tert-butyl ether	ND	RL-05	ug/l	5.0	--	5
p/m-Xylene	ND	RL-05	ug/l	10	--	5
o-Xylene	ND	RL-05	ug/l	5.0	--	5
cis-1,2-Dichloroethene	14	RL-05	ug/l	5.0	--	5
Dibromomethane	ND	RL-05	ug/l	5.0	--	5
1,2,3-Trichloropropane	ND	RL-05	ug/l	10	--	5
Styrene	ND	RL-05	ug/l	5.0	--	5
Dichlorodifluoromethane	ND	RL-05	ug/l	10	--	5
Acetone	ND	RL-05	ug/l	50	--	5
Carbon disulfide	ND	RL-07, RL-05	ug/l	25	--	5
2-Butanone	ND	RL-05	ug/l	50	--	5
4-Methyl-2-pentanone	ND	RL-05	ug/l	50	--	5
2-Hexanone	ND	RL-05	ug/l	50	--	5
Bromochloromethane	ND	RL-05	ug/l	5.0	--	5
Tetrahydrofuran	ND	V-05, RL-05	ug/l	10	--	5
2,2-Dichloropropane	ND	RL-05	ug/l	5.0	--	5
1,2-Dibromoethane	ND	RL-05	ug/l	2.5	--	5
1,3-Dichloropropane	ND	RL-05	ug/l	2.5	--	5
1,1,1,2-Tetrachloroethane	ND	RL-05	ug/l	5.0	--	5
Bromobenzene	ND	RL-05	ug/l	5.0	--	5
n-Butylbenzene	ND	RL-05	ug/l	5.0	--	5
sec-Butylbenzene	ND	RL-05	ug/l	5.0	--	5
tert-Butylbenzene	ND	RL-05	ug/l	5.0	--	5
o-Chlorotoluene	ND	RL-05	ug/l	5.0	--	5
p-Chlorotoluene	ND	RL-05	ug/l	5.0	--	5
1,2-Dibromo-3-chloropropane	ND	R-05, RL-05	ug/l	10	--	5
Hexachlorobutadiene	ND	RL-05	ug/l	3.0	--	5
Isopropylbenzene	ND	RL-05	ug/l	5.0	--	5
p-Isopropyltoluene	ND	RL-05	ug/l	5.0	--	5
Naphthalene	ND	RL-05	ug/l	10	--	5
n-Propylbenzene	ND	RL-05	ug/l	5.0	--	5
1,2,3-Trichlorobenzene	ND	RL-05	ug/l	10	--	5

Project Name: 50 TUFTS STREET **Lab Number:** L2572383

Project Number: 045163 **Report Date:** 11/20/25

SAMPLE RESULTS

Lab ID: L2572383-05 Date Collected: 11/13/25 10:00

Client ID: 045163-MW401S Date Received: 11/13/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trichlorobenzene	ND	RL-05	ug/l	5.0	--	5
1,3,5-Trimethylbenzene	ND	RL-05	ug/l	5.0	--	5
1,2,4-Trimethylbenzene	ND	RL-05	ug/l	5.0	--	5
Diethyl Ether	ND	RL-05	ug/l	10	--	5
Diisopropyl Ether	ND	RL-05	ug/l	2.5	--	5
Tert-Butyl Ethyl Ether	ND	RL-05	ug/l	2.5	--	5
Tert-Amyl Methyl Ether	ND	RL-05	ug/l	2.5	--	5
1,4-Dioxane	ND	RL-05	ug/l	250	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109	RL-05	70-130
Toluene-d8	96	RL-05	70-130
4-Bromofluorobenzene	95	RL-05	70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2572383
Report Date: 11/20/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/18/25 10:51
Analyst: MFF

Extraction Method: EPA 5030B
Extraction Date: 11/18/25 08:03

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 01-05 Batch: WG2144590-1					
Methylene chloride	ND		ug/l	5.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	2.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Chlorodibromomethane	ND		ug/l	0.50	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.40	--
cis-1,3-Dichloropropene	ND		ug/l	0.40	--
1,1-Dichloropropene	ND		ug/l	0.50	--
Bromoform	ND		ug/l	1.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--
Benzene	ND		ug/l	1.0	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	2.0	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2572383
Report Date: 11/20/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/18/25 10:51
Analyst: MFF

Extraction Method: EPA 5030B
Extraction Date: 11/18/25 08:03

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 01-05 Batch: WG2144590-1					
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert-butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	1.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	10	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	10	--
4-Methyl-2-pentanone	ND		ug/l	10	--
2-Hexanone	ND		ug/l	10	--
Bromochloromethane	ND		ug/l	1.0	--
Tetrahydrofuran	ND	V-05	ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	1.0	--
1,2-Dibromoethane	ND		ug/l	0.50	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2572383
Report Date: 11/20/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/18/25 10:51
Analyst: MFF

Extraction Method: EPA 5030B
Extraction Date: 11/18/25 08:03

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 01-05 Batch: WG2144590-1					
1,3-Dichloropropane	ND		ug/l	0.50	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	1.0	--
n-Butylbenzene	ND		ug/l	1.0	--
sec-Butylbenzene	ND		ug/l	1.0	--
tert-Butylbenzene	ND		ug/l	1.0	--
o-Chlorotoluene	ND		ug/l	1.0	--
p-Chlorotoluene	ND		ug/l	1.0	--
1,2-Dibromo-3-chloropropane	ND	R-05	ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	1.0	--
p-Isopropyltoluene	ND		ug/l	1.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	1.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--
Diethyl Ether	ND		ug/l	2.0	--
Diisopropyl Ether	ND		ug/l	0.50	--
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--
1,4-Dioxane	ND		ug/l	50	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2572383
Report Date: 11/20/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/18/25 10:51
Analyst: MFF

Extraction Method: EPA 5030B
Extraction Date: 11/18/25 08:03

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 01-05 Batch: WG2144590-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2572383
Report Date: 11/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-05 Batch: WG2144590-2 WG2144590-3								
Methylene chloride	99		95		70-130	4.22		20
1,1-Dichloroethane	110		115		70-130	4.55		20
Chloroform	118		118		70-130	0		20
Carbon tetrachloride	129		127		70-130	1.65		20
1,2-Dichloropropane	107		104		70-130	2.75		20
Chlorodibromomethane	122		114		70-130	6.18		20
1,1,2-Trichloroethane	108		104		70-130	3.95		20
Tetrachloroethene	122		116		70-130	4.28		20
Chlorobenzene	110		103		70-130	7.13		20
Trichlorofluoromethane	114		114		70-130	0.263		20
1,2-Dichloroethane	117		116		70-130	0.599		20
1,1,1-Trichloroethane	125		124		70-130	1.13		20
Bromodichloromethane	121		122		70-130	0.739		20
trans-1,3-Dichloropropene	127		121		70-130	5.40		20
cis-1,3-Dichloropropene	114		110		70-130	3.84		20
1,1-Dichloropropene	112		114		70-130	2.12		20
Bromoform	116		111		70-130	4.41		20
1,1,2,2-Tetrachloroethane	96		86		70-130	10.4		20
Benzene	107		106		70-130	0.843		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2572383
Report Date: 11/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-05 Batch: WG2144590-2 WG2144590-3								
Toluene	107		105		70-130	1.70		20
Ethylbenzene	109		103		70-130	6.03		20
Chloromethane	**173**	L-02, V-20	**170**	L-02, V-20	40-160	1.57		20
Bromomethane	106		107		40-160	0.938		20
Vinyl chloride	99		100		70-130	0.402		20
Chloroethane	89		88		70-130	1.36		20
1,1-Dichloroethene	96		97		70-130	0.727		20
trans-1,2-Dichloroethene	100		102		70-130	2.27		20
Trichloroethene	116		108		70-130	7.59		20
1,2-Dichlorobenzene	101		100		70-130	1.49		20
1,3-Dichlorobenzene	108		108		70-130	0.0924		20
1,4-Dichlorobenzene	106		100		70-130	5.45		20
Methyl tert-butyl ether	109		108		70-130	0.737		20
p/m-Xylene	104		104		70-130	0.577		20
o-Xylene	107		106		70-130	1.50		20
cis-1,2-Dichloroethene	108		108		70-130	0.278		20
Dibromomethane	110		101		70-130	7.86		20
1,2,3-Trichloropropane	90		79		70-130	12.5		20
Styrene	106		104		70-130	2.00		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2572383
Report Date: 11/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-05 Batch: WG2144590-2 WG2144590-3								
Dichlorodifluoromethane	134	L-14	127		40-160	5.97		20
Acetone	99		89		40-160	9.98		20
Carbon disulfide	98		98		70-130	0.0102		20
2-Butanone	102		93		40-160	8.85		20
4-Methyl-2-pentanone	98		86		40-160	13.9		20
2-Hexanone	98		82		40-160	18.0		20
Bromochloromethane	116		117		70-130	0.945		20
Tetrahydrofuran	86	V-05	76	V-05	70-130	11.8		20
2,2-Dichloropropane	120		119		70-130	0.168		20
1,2-Dibromoethane	110		104		70-130	5.43		20
1,3-Dichloropropane	104		102		70-130	1.16		20
1,1,1,2-Tetrachloroethane	119		117		70-130	1.53		20
Bromobenzene	101		96		70-130	4.57		20
n-Butylbenzene	104		103		70-130	0.873		20
sec-Butylbenzene	104		105		70-130	0.961		20
tert-Butylbenzene	108		109		70-130	1.29		20
o-Chlorotoluene	105		107		70-130	1.32		20
p-Chlorotoluene	108		101		70-130	6.87		20
1,2-Dibromo-3-chloropropane	122	R-05	98	R-05	70-130	**22.2**	Q	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2572383
Report Date: 11/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-05 Batch: WG2144590-2 WG2144590-3								
Hexachlorobutadiene	**134**	L-02, V-20	**134**	L-02, V-20	70-130	0.597		20
Isopropylbenzene	112		107		70-130	3.84		20
p-Isopropyltoluene	108		105		70-130	2.35		20
Naphthalene	85		80		70-130	5.58		20
n-Propylbenzene	105		106		70-130	0.285		20
1,2,3-Trichlorobenzene	102		99		70-130	3.47		20
1,2,4-Trichlorobenzene	110		101		70-130	8.69		20
1,3,5-Trimethylbenzene	109		106		70-130	2.98		20
1,2,4-Trimethylbenzene	105		106		70-130	0.944		20
Diethyl Ether	99		98		70-130	0.509		20
Diisopropyl Ether	107		108		70-130	0.279		20
Tert-Butyl Ethyl Ether	113		110		70-130	2.79		20
Tert-Amyl Methyl Ether	101		100		70-130	0.798		20
1,4-Dioxane	91		87		40-160	5.05		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2572383
Report Date: 11/20/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-05 Batch: WG2144590-2 WG2144590-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		106		70-130
Toluene-d8	98		97		70-130
4-Bromofluorobenzene	98		100		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2572383
Report Date: 11/20/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-05 QC Batch ID: WG2144590-4 WG2144590-5 QC Sample: L2572383-03 Client ID: 045163-GEO-1												
Methylene chloride	ND	10	8.87	89		8.79	88		70-130	0.906		30
1,1-Dichloroethane	ND	10	10.3	103		10.8	108		70-130	4.91		30
Chloroform	ND	10	11.0	110		11.0	110		70-130	0.182		30
Carbon tetrachloride	ND	10	12.8	128		13.0	130		70-130	1.94		30
1,2-Dichloropropane	ND	10	9.60	96		10.3	103		70-130	6.94		30
Chlorodibromomethane	ND	10	11.2	112		11.4	114		70-130	0.973		30
1,1,2-Trichloroethane	ND	10	9.74	97		10.2	102		70-130	4.22		30
Tetrachloroethene	37	10	49.7	130		52.6	**159**	MS-24	70-130	5.61		30
Chlorobenzene	ND	10	9.86	99		10.5	105		70-130	6.00		30
Trichlorofluoromethane	ND	10	11.7	117		12.0	120		70-130	2.95		30
1,2-Dichloroethane	ND	10	10.8	108		11.4	114		70-130	5.49		30
1,1,1-Trichloroethane	ND	10	12.9	122		12.8	121		70-130	0.779		30
Bromodichloromethane	ND	10	10.9	109		11.4	114		70-130	4.65		30
trans-1,3-Dichloropropene	ND	10	10.8	108		10.7	107		70-130	1.02		30
cis-1,3-Dichloropropene	ND	10	10.2	102		10.2	102		70-130	0.784		30
1,1-Dichloropropene	ND	10	10.6	106		11.2	112		70-130	5.69		30
Bromoform	ND	10	10.0	100		10.7	107		70-130	6.66		30
1,1,2,2-Tetrachloroethane	ND	10	7.97	80		8.85	89		70-130	10.5		30
Benzene	ND	10	10.0	100		9.71	97		70-130	3.44		30

Matrix Spike Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2572383
Report Date: 11/20/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-05 QC Batch ID: WG2144590-4 WG2144590-5 QC Sample: L2572383-03 Client ID: 045163-GEO-1												
Toluene	ND	10	9.64	96		9.94	99		70-130	3.06		30
Ethylbenzene	ND	10	9.95	100		10.4	104		70-130	4.61		30
Chloromethane	ND	10	23.6	**236**	L-02, MS-15, V-20	22.8	**228**	L-02, MS-15, V-20	70-130	3.44		30
Bromomethane	ND	10	6.86	**69**	MS-07A	6.50	**65**	MS-07A	70-130	5.39		30
Vinyl chloride	ND	10	9.87	99		9.67	97		70-130	2.05		30
Chloroethane	ND	10	8.30	83		8.07	81		70-130	2.81		30
1,1-Dichloroethene	ND	10	9.62	96		9.43	94		70-130	1.99		30
trans-1,2-Dichloroethene	ND	10	9.45	95		9.64	96		70-130	1.99		30
Trichloroethene	2.5	10	12.8	103		13.7	112		70-130	6.66		30
1,2-Dichlorobenzene	ND	10	8.41	84		9.29	93		70-130	9.94		30
1,3-Dichlorobenzene	ND	10	9.28	93		9.64	96		70-130	3.81		30
1,4-Dichlorobenzene	ND	10	8.99	90		9.48	95		70-130	5.31		30
Methyl tert-butyl ether	ND	10	9.38	94		9.74	97		70-130	3.77		30
p/m-Xylene	ND	20	19.5	98		20.6	103		70-130	5.58		30
o-Xylene	ND	10	10.0	100		10.4	104		70-130	3.33		30
cis-1,2-Dichloroethene	ND	10	10.3	103		10.3	103		70-130	0		30
Dibromomethane	ND	10	9.67	97		9.93	99		70-130	2.65		30
1,2,3-Trichloropropane	ND	10	7.53	75		8.26	83		70-130	9.25		30

Matrix Spike Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2572383
Report Date: 11/20/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-05 QC Batch ID: WG2144590-4 WG2144590-5 QC Sample: L2572383-03 Client ID: 045163-GEO-1												
Styrene	ND	10	9.55	96		9.71	97		70-130	1.66		30
Dichlorodifluoromethane	ND	10	12.7	127		12.4	124		70-130	1.99		30
Acetone	ND	100	76.2	76		83.4	83		70-130	8.96		30
Carbon disulfide	ND	100	92.4	92		92.2	92		70-130	0.293		30
2-Butanone	ND	100	76.5	77		86.0	86		70-130	11.7		30
4-Methyl-2-pentanone	ND	100	75.3	75		85.8	86		70-130	13.0		30
2-Hexanone	ND	100	73.5	74		85.3	85		70-130	14.9		30
Bromochloromethane	ND	10	10.4	104		10.3	103		70-130	1.06		30
Tetrahydrofuran	ND	10	7.59	76	V-05	7.28	73	V-05	70-130	4.17		30
2,2-Dichloropropane	ND	10	9.75	98		10.1	101		70-130	3.43		30
1,2-Dibromoethane	ND	10	9.58	96		10.3	103		70-130	7.05		30
1,3-Dichloropropane	ND	10	9.39	94		9.77	98		70-130	3.97		30
1,1,1,2-Tetrachloroethane	ND	10	11.2	112		11.6	116		70-130	3.42		30
Bromobenzene	ND	10	8.93	89		9.53	95		70-130	6.50		30
n-Butylbenzene	ND	10	8.98	90		9.97	100		70-130	10.4		30
sec-Butylbenzene	ND	10	9.27	93		10.2	102		70-130	9.94		30
tert-Butylbenzene	ND	10	10.1	101		10.2	102		70-130	1.68		30
o-Chlorotoluene	ND	10	9.56	96		10.5	105		70-130	9.75		30
p-Chlorotoluene	ND	10	9.83	98		10.2	102		70-130	3.30		30

Matrix Spike Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2572383
Report Date: 11/20/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-05 QC Batch ID: WG2144590-4 WG2144590-5 QC Sample: L2572383-03 Client ID: 045163-GEO-1												
1,2-Dibromo-3-chloropropane	ND	10	8.81	88	R-05	8.83	88	R-05	70-130	0.227		30
Hexachlorobutadiene	ND	10	11.4	114	L-02, V-20	12.0	120	L-02, V-20	70-130	5.72		30
Isopropylbenzene	ND	10	10.3	103		10.7	107		70-130	4.38		30
p-Isopropyltoluene	ND	10	9.54	95		10.2	102		70-130	6.78		30
Naphthalene	ND	10	7.69	77		9.60	96		70-130	22.1		30
n-Propylbenzene	ND	10	9.66	97		10.5	105		70-130	8.52		30
1,2,3-Trichlorobenzene	ND	10	8.86	89		10.7	107		70-130	18.5		30
1,2,4-Trichlorobenzene	ND	10	8.95	90		10.7	107		70-130	17.7		30
1,3,5-Trimethylbenzene	ND	10	9.80	98		10.7	107		70-130	9.06		30
1,2,4-Trimethylbenzene	ND	10	9.36	94		9.65	97		70-130	3.05		30
Diethyl Ether	ND	10	9.02	90		8.60	86		70-130	4.77		30
Diisopropyl Ether	ND	10	9.60	96		9.53	95		70-130	0.732		30
Tert-Butyl Ethyl Ether	ND	10	9.51	95		9.90	99		70-130	4.02		30
Tert-Amyl Methyl Ether	ND	10	8.50	85		9.03	90		70-130	6.05		30
1,4-Dioxane	ND	100	67.5	**68**	MS-24	76.1	76		70-130	12.0		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		107		70-130
4-Bromofluorobenzene	99		101		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2572383
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Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-05 QC Batch ID: WG2144590-4 WG2144590-5 QC Sample: L2572383-03 Client ID: 045163-GEO-1												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
Toluene-d8	96		96		70-130

Project Name:	50 TUFTS STREET	**Lab Number:**	L2572383
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GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	50 TUFTS STREET	**Lab Number:**	L2572383
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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	50 TUFTS STREET	**Lab Number:**	L2572383
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Data Qualifiers

ND	- Not detected at the reporting limit (RL) for the sample.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
S	- Analytical results are from modified screening analysis.
V	- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
Z	- The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
L-02	- Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-14	- Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
MS-07A	- Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-15	- Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.
MS-24	- Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
R-05	- Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-05	- Elevated reporting limit due to high concentration of target compounds. MA CAM reporting limit not met.
RL-07	- Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
V-05	- Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	- Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Report Format: Data Usability Report

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2572383
Report Date: 11/20/25

REFERENCES

141 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA and IIB, November 2021.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY kY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
MA M-MA00030, CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

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Pace

Subcontract Chain of Custody

Pace New England
39 Spruce St
East Longmeadow, MA 01028

Pace Job Number
L2572383

Page 1

Client Information

Client: Pace Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Report To:west.subreports@pacelabs.com
Bill To:invoices@pacelabs.coupahost.com

Phone: 508-618-5855
Email: dishaben.desai@pacelabs.com

Project Information

Project Location: MA
Project Manager: Dishaben Desai

Turnaround & Deliverables Information

Due Date: 11/20/25
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program: MCP
Regulatory Criteria:

Report to RL **UDI EDD**

Project Specific Requirements and/or Report Requirements

Reference following Pace Job Number on final report/deliverables: L2572383 Report to include Method and/or Regulatory required batch QC

Additional Comments:

Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2572383-01	045163-MW115R	11-13-25 07:20	WATER	MCP 8260D - Volatile Organics	A3-MCP-8260-21		0
	L2572383-02	045163-MW109	11-13-25 07:50	WATER	MCP 8260D - Volatile Organics	A3-MCP-8260-21		0
	L2572383-03	045163-GEO-1	11-13-25 08:40	WATER	MCP 8260D - Volatile Organics	A3-MCP-8260-21	MS,MSD	0
	L2572383-04	045163-MW401D	11-13-25 09:40	WATER	MCP 8260D - Volatile Organics	A3-MCP-8260-21		0
	L2572383-05	045163-MW401S	11-13-25 10:00	WATER	MCP 8260D - Volatile Organics	A3-MCP-8260-21		0

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		11/14/25 18:10		
		11-14 2030		11-14 12
Form No: AL_subcoc				

Chain-of-Custody Record

Laboratory: Pace

Laboratory Job # (Lab use only) L2572383

GEI Consultants
400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000

Project Information

Project Name: Tufts Street

Project Number: 045163

Project Location: Somerville, Massachusetts

Project Manager: Chris Coner
cconer@geiconsultants.com

Send Report to: Chris Coner, Davis Miller
labdata@geiconsultants.com

MCP PRESUMPTIVE CERTAINTY AND MCP ANALYTICAL METHODS REQUIRED: (YES) NO

STATE AND FEDERAL REGULATORY REQUIREMENTS/REPORT LIMITS

State/Federal Program: (MA) 401WQC Other _____ NH RI CT NY ME

MA MCP Criteria are Method 1 S-1 and GW-2/GW-3. Circle if GW-1 is required.

Sample Handling

Samples Field Filtered: YES (NO) NA

Sampled Shipped With Ice: (YES) NO

Lab Sample Number	GEI Sample ID	Collection Date	Collection Time	Matrix	No. of Bottles	Sampler(s) Initials	Preservative: HCl	HCl	None	NaOH & Zn Acetate	H3PO4	HNO3	H2SO4				VOCs 8260	Methane, Ethane, Ethene	Alkalinity, Cl-, TRCl-, Fe II, N, NO3, SO4, Surfactants	Sulfide	TOC	Manganese	NO2 & NO3 as Nitrogen				Sample Specific Remarks
01	045163-MW115R	11/13/2025	7:20	GW	3	JWG											X										
02	045163-MW109	11/13/2025	7:50	GW	3	NMT											X										
03	045163-GEO-1	11/13/2025	8:40	GW	9	JWG											X										MS/MSD
04	045163-MW401D	11/13/2025	9:40	GW	3	NMT											X										
05	045163-MW401S	11/13/2025	10:00	GW	3	JWG											X										

	Relinquished by sampler: (signature)	Date	Time	Received by: (signature)
1.	Nicholas Trivedi	11/13/25	12:00	GEI Sample Fridge
2.	GEI Courier	11/13/25	1540	
3.		11/13/25	1542	11/13/25 15:42
4.		11/13/25	1810	
5.				

Turnaround Time (Business days):

5-Day _X_ 4-Day ____ 3-Day ____
2-Day ____ 1-Day ____ Other ____

Before submitting rush turnaround samples, you **must** notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

Sample Matrix Abbreviations: SO = Soil GW = Groundwater SW = Surface Water SD = Sediment CO = Concrete PC = Paint Chip CLK = Caulk

ANALYTICAL REPORT

Lab Number:	L2601000
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	50 TUFTS STREET
Project Number:	045163
Report Date:	01/14/26

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2601000
Report Date: 01/14/26

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2601000-01	045163-MW122	WATER	SOMERVILLE, MASSACHUSETTS	01/07/26 09:50	01/08/26
L2601000-02	045163-MW407	WATER	SOMERVILLE, MASSACHUSETTS	01/07/26 14:30	01/08/26

Project Name: 50 TUFTS STREET **Lab Number:** L2601000

Project Number: 045163 **Report Date:** 01/14/26

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E 1.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E 2.	PFAS Only: Were aqueous samples extracted without filtering?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits/lower limits of quantitation at or below all CAM reporting limits/lower limits of quantitation specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	50 TUFTS STREET	**Lab Number:**	L2601000
Project Number:	045163	**Report Date:**	01/14/26

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 01/14/26

QC OUTLIER SUMMARY REPORT

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2601000
Report Date: 01/14/26

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
MCP Volatile Organics by GC/MS - East Longmeadow Lab								
8260D	Batch QC	WG2165195-2	Bromomethane	LCS	201	40-160	01-02	potential high bias
8260D	Batch QC	WG2165195-3	Bromomethane	LCSD	187	40-160	01-02	potential high bias

ORGANICS

VOLATILES

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2601000
Report Date: 01/14/26

SAMPLE RESULTS

Lab ID: L2601000-01
Client ID: 045163-MW122
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 01/07/26 09:50
Date Received: 01/08/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 01/12/26 23:57
Analyst: LBD
Extraction Method: EPA 5030B
Extraction Date: 01/09/26 10:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND	RL-05	ug/l	4.0	--	2
1,1-Dichloroethane	4.5	RL-05	ug/l	2.0	--	2
Chloroform	ND	RL-05	ug/l	4.0	--	2
Carbon tetrachloride	ND	RL-05	ug/l	2.0	--	2
1,2-Dichloropropane	ND	RL-05	ug/l	2.0	--	2
Chlorodibromomethane	ND	RL-05	ug/l	1.0	--	2
1,1,2-Trichloroethane	ND	RL-05	ug/l	2.0	--	2
Tetrachloroethene	42	RL-05	ug/l	2.0	--	2
Chlorobenzene	ND	RL-05	ug/l	2.0	--	2
Trichlorofluoromethane	ND	RL-05	ug/l	4.0	--	2
1,2-Dichloroethane	ND	RL-05	ug/l	2.0	--	2
1,1,1-Trichloroethane	ND	RL-05	ug/l	2.0	--	2
Bromodichloromethane	ND	RL-05	ug/l	2.0	--	2
trans-1,3-Dichloropropene	ND	RL-05	ug/l	0.80	--	2
cis-1,3-Dichloropropene	ND	RL-05	ug/l	0.80	--	2
1,1-Dichloropropene	ND	RL-05	ug/l	1.0	--	2
Bromoform	ND	RL-05	ug/l	2.0	--	2
1,1,2,2-Tetrachloroethane	ND	RL-05	ug/l	1.0	--	2
Benzene	ND	RL-05	ug/l	2.0	--	2
Toluene	ND	RL-05	ug/l	2.0	--	2
Ethylbenzene	14	RL-05	ug/l	2.0	--	2
Chloromethane	ND	RL-05	ug/l	4.0	--	2
Bromomethane	ND	RL-05	ug/l	4.0	--	2
Vinyl chloride	22	RL-05	ug/l	4.0	--	2
Chloroethane	ND	RL-05	ug/l	4.0	--	2
1,1-Dichloroethene	ND	RL-05	ug/l	2.0	--	2
trans-1,2-Dichloroethene	ND	RL-05	ug/l	2.0	--	2
Trichloroethene	8.7	RL-05	ug/l	2.0	--	2

Project Name: 50 TUFTS STREET **Lab Number:** L2601000

Project Number: 045163 **Report Date:** 01/14/26

SAMPLE RESULTS

Lab ID: L2601000-01 Date Collected: 01/07/26 09:50

Client ID: 045163-MW122 Date Received: 01/08/26

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND	RL-05	ug/l	2.0	--	2
1,3-Dichlorobenzene	ND	RL-05	ug/l	2.0	--	2
1,4-Dichlorobenzene	ND	RL-05	ug/l	2.0	--	2
Methyl tert-butyl ether	2.5	RL-05	ug/l	2.0	--	2
p/m-Xylene	ND	RL-05	ug/l	4.0	--	2
o-Xylene	ND	RL-05	ug/l	2.0	--	2
cis-1,2-Dichloroethene	130	RL-05	ug/l	2.0	--	2
Dibromomethane	ND	RL-05	ug/l	2.0	--	2
1,2,3-Trichloropropane	ND	RL-05	ug/l	4.0	--	2
Styrene	370	RL-05	ug/l	2.0	--	2
Dichlorodifluoromethane	ND	RL-05	ug/l	4.0	--	2
Acetone	ND	RL-05	ug/l	20	--	2
Carbon disulfide	ND	RL-05	ug/l	10	--	2
2-Butanone	ND	RL-05	ug/l	20	--	2
4-Methyl-2-pentanone	ND	RL-05	ug/l	20	--	2
2-Hexanone	ND	RL-05	ug/l	20	--	2
Bromochloromethane	ND	RL-05	ug/l	2.0	--	2
Tetrahydrofuran	ND	RL-05	ug/l	4.0	--	2
2,2-Dichloropropane	ND	RL-05	ug/l	2.0	--	2
1,2-Dibromoethane	ND	RL-05	ug/l	1.0	--	2
1,3-Dichloropropane	ND	RL-05	ug/l	1.0	--	2
1,1,1,2-Tetrachloroethane	ND	RL-05	ug/l	2.0	--	2
Bromobenzene	ND	RL-05	ug/l	2.0	--	2
n-Butylbenzene	ND	RL-05	ug/l	2.0	--	2
sec-Butylbenzene	ND	RL-05	ug/l	2.0	--	2
tert-Butylbenzene	ND	RL-05	ug/l	2.0	--	2
o-Chlorotoluene	ND	RL-05	ug/l	2.0	--	2
p-Chlorotoluene	ND	RL-05	ug/l	2.0	--	2
1,2-Dibromo-3-chloropropane	ND	RL-05	ug/l	4.0	--	2
Hexachlorobutadiene	ND	RL-05	ug/l	1.2	--	2
Isopropylbenzene	ND	RL-05	ug/l	2.0	--	2
p-Isopropyltoluene	ND	RL-05	ug/l	2.0	--	2
Naphthalene	ND	RL-05	ug/l	4.0	--	2
n-Propylbenzene	ND	RL-05	ug/l	2.0	--	2
1,2,3-Trichlorobenzene	ND	RL-05	ug/l	4.0	--	2
1,2,4-Trichlorobenzene	ND	RL-05	ug/l	2.0	--	2
1,3,5-Trimethylbenzene	ND	RL-05	ug/l	2.0	--	2

Project Name: 50 TUFTS STREET **Lab Number:** L2601000

Project Number: 045163 **Report Date:** 01/14/26

SAMPLE RESULTS

Lab ID: L2601000-01 Date Collected: 01/07/26 09:50

Client ID: 045163-MW122 Date Received: 01/08/26

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND	RL-05	ug/l	2.0	--	2
Diethyl Ether	ND	RL-05	ug/l	4.0	--	2
Diisopropyl Ether	ND	RL-05	ug/l	1.0	--	2
Tert-Butyl Ethyl Ether	ND	RL-05	ug/l	1.0	--	2
Tert-Amyl Methyl Ether	ND	RL-05	ug/l	1.0	--	2
1,4-Dioxane	ND	RL-05	ug/l	100	--	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115	RL-05	70-130
Toluene-d8	96	RL-05	70-130
4-Bromofluorobenzene	94	RL-05	70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2601000
Report Date: 01/14/26

SAMPLE RESULTS

Lab ID: L2601000-02
Client ID: 045163-MW407
Sample Location: SOMERVILLE, MASSACHUSETTS

Date Collected: 01/07/26 14:30
Date Received: 01/08/26
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 01/12/26 21:21
Analyst: LBD

Extraction Method: EPA 5030B
Extraction Date: 01/09/26 10:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	2.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Chlorodibromomethane	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	40		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	0.50	--	1
Bromoform	ND		ug/l	1.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--	1
Benzene	1.1		ug/l	1.0	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	2.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	1.6		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	4.1		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2601000

Project Number: 045163 **Report Date:** 01/14/26

SAMPLE RESULTS

Lab ID: L2601000-02 Date Collected: 01/07/26 14:30

Client ID: 045163-MW407 Date Received: 01/08/26

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert-butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	1.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	12		ug/l	10	--	1
Carbon disulfide	ND	RL-07	ug/l	5.0	--	1
2-Butanone	ND		ug/l	10	--	1
4-Methyl-2-pentanone	ND		ug/l	10	--	1
2-Hexanone	ND		ug/l	10	--	1
Bromochloromethane	ND		ug/l	1.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	1.0	--	1
1,2-Dibromoethane	ND		ug/l	0.50	--	1
1,3-Dichloropropane	ND		ug/l	0.50	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	1.0	--	1
n-Butylbenzene	ND		ug/l	1.0	--	1
sec-Butylbenzene	ND		ug/l	1.0	--	1
tert-Butylbenzene	ND		ug/l	1.0	--	1
o-Chlorotoluene	ND		ug/l	1.0	--	1
p-Chlorotoluene	ND		ug/l	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	1.0	--	1
p-Isopropyltoluene	ND		ug/l	1.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	1.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2601000

Project Number: 045163 **Report Date:** 01/14/26

SAMPLE RESULTS

Lab ID: L2601000-02 Date Collected: 01/07/26 14:30

Client ID: 045163-MW407 Date Received: 01/08/26

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by GC/MS - East Longmeadow Lab						
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--	1
Diethyl Ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	0.50	--	1
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--	1
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--	1
1,4-Dioxane	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	89		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2601000
Report Date: 01/14/26

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 01/12/26 15:17
Analyst: LBD

Extraction Method: EPA 5030B
Extraction Date: 01/09/26 10:58

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 01-02 Batch: WG2165195-1					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	2.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Chlorodibromomethane	ND		ug/l	0.50	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.40	--
cis-1,3-Dichloropropene	ND		ug/l	0.40	--
1,1-Dichloropropene	ND		ug/l	0.50	--
Bromoform	ND		ug/l	1.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	--
Benzene	ND		ug/l	1.0	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	2.0	--

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2601000
Report Date: 01/14/26

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 01/12/26 15:17
Analyst: LBD

Extraction Method: EPA 5030B
Extraction Date: 01/09/26 10:58

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 01-02 Batch: WG2165195-1					
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert-butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	1.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	10	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	10	--
4-Methyl-2-pentanone	ND		ug/l	10	--
2-Hexanone	ND		ug/l	10	--
Bromochloromethane	ND		ug/l	1.0	--
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	1.0	--
1,2-Dibromoethane	ND		ug/l	0.50	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2601000
Report Date: 01/14/26

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 01/12/26 15:17
Analyst: LBD

Extraction Method: EPA 5030B
Extraction Date: 01/09/26 10:58

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 01-02 Batch: WG2165195-1					
1,3-Dichloropropane	ND		ug/l	0.50	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	1.0	--
n-Butylbenzene	ND		ug/l	1.0	--
sec-Butylbenzene	ND		ug/l	1.0	--
tert-Butylbenzene	ND		ug/l	1.0	--
o-Chlorotoluene	ND		ug/l	1.0	--
p-Chlorotoluene	ND		ug/l	1.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	1.0	--
p-Isopropyltoluene	ND		ug/l	1.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	1.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	1.0	--
1,3,5-Trimethylbenzene	ND		ug/l	1.0	--
1,2,4-Trimethylbenzene	ND		ug/l	1.0	--
Diethyl Ether	ND		ug/l	2.0	--
Diisopropyl Ether	ND		ug/l	0.50	--
Tert-Butyl Ethyl Ether	ND		ug/l	0.50	--
Tert-Amyl Methyl Ether	ND		ug/l	0.50	--
1,4-Dioxane	ND		ug/l	50	--

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2601000
Report Date: 01/14/26

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 01/12/26 15:17
Analyst: LBD

Extraction Method: EPA 5030B
Extraction Date: 01/09/26 10:58

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by GC/MS - East Longmeadow Lab for sample(s): 01-02 Batch: WG2165195-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2601000
Report Date: 01/14/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab	Associated sample(s): 01-02		Batch: WG2165195-2 WG2165195-3					
Methylene chloride	99		102		70-130	2.29		20
1,1-Dichloroethane	99		102		70-130	2.29		20
Chloroform	98		97		70-130	0.512		20
Carbon tetrachloride	100		90		70-130	10.1		20
1,2-Dichloropropane	96		94		70-130	2.31		20
Chlorodibromomethane	99		98		70-130	1.53		20
1,1,2-Trichloroethane	98		98		70-130	0.510		20
Tetrachloroethene	93		93		70-130	0.968		20
Chlorobenzene	105		104		70-130	0.861		20
Trichlorofluoromethane	101		102		70-130	1.09		20
1,2-Dichloroethane	86		95		70-130	9.97		20
1,1,1-Trichloroethane	99		101		70-130	1.50		20
Bromodichloromethane	98		99		70-130	0.608		20
trans-1,3-Dichloropropene	97		97		70-130	0.103		20
cis-1,3-Dichloropropene	100		96		70-130	4.38		20
1,1-Dichloropropene	101		96		70-130	5.68		20
Bromoform	102		102		70-130	0.392		20
1,1,2,2-Tetrachloroethane	99		99		70-130	0.202		20
Benzene	99		99		70-130	0.303		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2601000
Report Date: 01/14/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-02 Batch: WG2165195-2 WG2165195-3								
Toluene	96		95		70-130	0.525		20
Ethylbenzene	104		105		70-130	1.34		20
Chloromethane	86		94		40-160	9.32		20
Bromomethane	**201**	L-02, V-20, V-36	**187**	L-02, V-20, V-36	40-160	7.63		20
Vinyl chloride	97		95		70-130	2.51		20
Chloroethane	93		97		70-130	3.79		20
1,1-Dichloroethene	99		102		70-130	3.07		20
trans-1,2-Dichloroethene	97		100		70-130	3.16		20
Trichloroethene	94		98		70-130	4.70		20
1,2-Dichlorobenzene	111		114		70-130	2.50		20
1,3-Dichlorobenzene	110		110		70-130	0.636		20
1,4-Dichlorobenzene	105		109		70-130	3.27		20
Methyl tert-butyl ether	101		100		70-130	0.892		20
p/m-Xylene	100		102		70-130	1.63		20
o-Xylene	103		104		70-130	0.483		20
cis-1,2-Dichloroethene	101		106		70-130	4.45		20
Dibromomethane	98		98		70-130	0.204		20
1,2,3-Trichloropropane	106		106		70-130	0.188		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2601000
Report Date: 01/14/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-02 Batch: WG2165195-2 WG2165195-3								
Styrene	106		105		70-130	0.475		20
Dichlorodifluoromethane	92		90		40-160	1.43		20
Acetone	100		94		40-160	6.31		20
Carbon disulfide	99		100		70-130	1.76		20
2-Butanone	98		97		40-160	0.975		20
4-Methyl-2-pentanone	93		91		40-160	2.75		20
2-Hexanone	94		91		40-160	3.19		20
Bromochloromethane	110		111		70-130	0.544		20
Tetrahydrofuran	94		94		70-130	0		20
2,2-Dichloropropane	91		92		70-130	1.64		20
1,2-Dibromoethane	96		93		70-130	3.38		20
1,3-Dichloropropane	98		96		70-130	1.76		20
1,1,1,2-Tetrachloroethane	104		108		70-130	4.34		20
Bromobenzene	104		102		70-130	1.93		20
n-Butylbenzene	108		109		70-130	1.29		20
sec-Butylbenzene	108		111		70-130	2.93		20
tert-Butylbenzene	108		110		70-130	2.01		20
o-Chlorotoluene	100		100		70-130	0		20
p-Chlorotoluene	100		102		70-130	2.78		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2601000
Report Date: 01/14/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-02 Batch: WG2165195-2 WG2165195-3								
1,2-Dibromo-3-chloropropane	120		116		70-130	3.04		20
Hexachlorobutadiene	111		120		70-130	8.23		20
Isopropylbenzene	102		102		70-130	0.393		20
p-Isopropyltoluene	106		108		70-130	1.88		20
Naphthalene	110		117		70-130	6.61		20
n-Propylbenzene	103		103		70-130	0.0974		20
1,2,3-Trichlorobenzene	114		118		70-130	4.06		20
1,2,4-Trichlorobenzene	118		124		70-130	5.53		20
1,3,5-Trimethylbenzene	102		103		70-130	1.27		20
1,2,4-Trimethylbenzene	110		112		70-130	2.25		20
Diethyl Ether	102		102		70-130	0.391		20
Diisopropyl Ether	100		98		70-130	2.02		20
Tert-Butyl Ethyl Ether	104		104		70-130	0.385		20
Tert-Amyl Methyl Ether	96		102		70-130	5.94		20
1,4-Dioxane	85		87		40-160	2.75		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2601000
Report Date: 01/14/26

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by GC/MS - East Longmeadow Lab Associated sample(s): 01-02 Batch: WG2165195-2 WG2165195-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	109		109		70-130
Toluene-d8	96		96		70-130
4-Bromofluorobenzene	95		95		70-130

Project Name:	50 TUFTS STREET	**Lab Number:**	L2601000
Project Number:	045163	**Report Date:**	01/14/26

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	50 TUFTS STREET	**Lab Number:**	L2601000
Project Number:	045163	**Report Date:**	01/14/26

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	50 TUFTS STREET	**Lab Number:**	L2601000
Project Number:	045163	**Report Date:**	01/14/26

Data Qualifiers

ND	- Not detected at the reporting limit (RL) for the sample.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
S	- Analytical results are from modified screening analysis.
V	- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
Z	- The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
L-02	- Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
RL-05	- Elevated reporting limit due to high concentration of target compounds. MA CAM reporting limit not met.
RL-07	- Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
V-20	- Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-36	- Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Report Format: Data Usability Report

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2601000
Report Date: 01/14/26

REFERENCES

141 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA and IIB, November 2021.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

ENV-FORM-WES2-0065 v02 Certificate/Approval Program Summary

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

PAS-WES2 Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

PAS-MANS Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
Biological Tissue Matrix: EPA 3050B

PAS-MAN1 Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.

PAS-ELON East Longmeadow Facility – 39 Spruce Street East Longmeadow, MA 01028
EPA 524.2: 1,3,5-Trichlorobenzene, m/p-Xylene, o-xylene.
EPA 625.1: 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, N-Nitrosodiphenylamine**.**
EPA 8081B NPW and SCM: Alachlor, Endrin Ketone, Hexachlorobenzene.
EPA 8260D NPW: Tetrahydrofuran, 1,3,5-Trichlorobenzene; **SCM:** TAME, TBEE, Diethyl ether, DIPE, Tetrahydrofuran. 1,3,5-Trichlorobenzene, Freon-113**.**
EPA 8270E: NPW: Carbazole, 1-Methylnaphthalene, Pentachloronitrobenzene; **SCM:** Carbazole, 1-Methylnaphthalene**.**
EPA TO-13: Air: Benzo(e)pyrene, 1-Methylnaphthalene, 2-Methylnaphthalene, Perylene.
EPA TO-4A Pesticide Air: delta-BHC, Endosulfan I, Endosulfan II, Endosulfan Sulfate, Endrin, Endrin Aldehyde, Endrin Ketone, Hexachlorobenzene, Methoxychlor.
SM4500: NPW: Amenable Cyanide; **SCM:** Total Phosphorus, TKN, NH3, NECi: NO2, NO3, ASTMD516**.**

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

PAS-MANS Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation:

PAS-WES2 Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

ENV-FORM-WES2-0065 v02 Certificate/Approval Program Summary

PAS-MANS Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

PAS-ELON East Longmeadow Facility – 39 Spruce Street East Longmeadow, MA 01028

Drinking Water

EPA 300.0: NO3, NO2, Fl, Cl, SO4. **NECI Reductase**: NO3, NO2.
SM4500F-C, SM4500Cl-B, ASTM D516, SM4500CN-C,E, EPA 180.1, SM2320B, SM 2540C, SM4500H-B, SM4500SO4-E.
EPA 537.1; EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: SM9223-P/A: TC/EC; SM9223B-Colilert-enumeration: TC/EC; HPC-Simplate.

Non-Potable Water

SM4500H-B, SM2510B, SM2540C, SM2320B, SM4500Cl-B, ASTMD516, SM4500NH3-B, C, EPA 350.1, NECi: NO3, **SM4500NH3-B, C: TKN, SM4500P-E: Ortho Phosphate, SM4500P-B, E: Total Phosphorus, EPA 410.4, SM5210B, SM5310C, SM4500CN-C, E, SM2540D, SM4500Cl-G, SM4500SO4-E, EPA 1664, EPA 420.1, EPA 300.0:** Cl, SO4, NO3.
EPA 624.1: Volatile Halocarbons, Volatile Aromatics.
EPA 608.3: Chlordane, Toxaphene, Aldrin, Alpha-BHC, Beta-BHC, Gamma-BHC, Delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan Sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs.
EPA 625.1: SVOC-Acid Extractables and Base/Neutrals
Microbiology: SM9223B-Colilert: E. coli (Ambient and Wastewater), **SM9223B-Colilert-18:** Fecal Coliform (Wastewater).

Certification IDs:

PAS-WES2 Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY kY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195.

PAS-MANS Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, CA 3117, CO MA00030, CT PH-0825, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MD 350, MA M-MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, UT MA00030, VT VT-0015, VA 460194, WA C954.

PAS-MAN1 Mansfield Air Lab Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

PAS-ELON East Longmeadow Facility – 39 Spruce St. East Longmeadow, MA 01028
CT PH-0821, ME MA00100, MI 9100, NC (DENR) 652, NC (DW) 25703, MA M-MA100, NH (Secondary) 2516, NH (Primary) 2557, NJ MA007, NY 10899, PA 68-05812, RI LAO00373, VA 460217, VT-255716, WV DEP 419, WV-DW 9979C, LA 05130, LA-DW LA042, MD-DW 373, OH 87781.

For a complete listing of analytes and methods, please contact your Project Manager.

Pace

Subcontract Chain of Custody

Pace New England
39 Spruce St
East Longmeadow, MA 01028

Pace Job Number
L2601000

Page 1

Client Information

Client: Pace Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Report To:west.subreports@pacelabs.com
Bill To:invoices@pacelabs.coupahost.com

Phone: 508-618-5855
Email: dishaben.desai@pacelabs.com

Project Information

Project Location: MA
Project Manager: Dishaben Desai

Turnaround & Deliverables Information

Due Date: 01/22/26
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program: MCP
Regulatory Criteria:

Report to RL UDI EDD

Project Specific Requirements and/or Report Requirements

Reference following Pace Job Number on final report/deliverables: L2601000 Report to include Method and/or Regulatory required batch QC

Additional Comments:

Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2601000-01	045163-MW122	01-07-26 09:50	WATER	MCP 8260D - Volatile Organics	A3-MCP-8260-21		0
	L2601000-02	045163-MW407	01-07-26 14:30	WATER	MCP 8260D - Volatile Organics	A3-MCP-8260-21		0

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		1/8/26 18:00		1-8-26 18
		1-8-26		

Form No: AL_subcoc

Chain-of-Custody Record

Laboratory: PACE

Laboratory Job # (Lab use only)

GEI Consultants
100 Quannapowitt Parkway
~~400 Unicorn Park Drive~~
~~Woburn, MA 01801~~
PH: 781.721.4000

Project Information

Project Name: ~~045163~~ 50 TUFTS ST

Project Location: SOMERVILLE, MA

Project Number: 045163

Project Manager: CHRIS CONER

Page 1 of 1

Send Report to:
LABDATA@geiconsultants.com
CCONER@geiconsultants.com
DMILLER@geiconsultants.com

MCP PRESUMPTIVE CERTAINTY AND MCP ANALYTICAL METHODS REQUIRED: (YES) NO

STATE AND FEDERAL REGULATORY REQUIREMENTS/REPORT LIMITS

State/Federal Program: (MA) 401WQC Other _____ NH RI CT NY ME

MA MCP Criteria are Method 1 S-1 and GW-2/GW-3. Circle if GW-1 is required.

Preservative

Sample Handling

Samples Field Filtered: YES (NO) NA

Sampled Shipped With Ice: (YES) NO

Lab Sample Number	GEI Sample ID	Collection Date	Collection Time	Matrix	No. of Bottles	Sampler(s) Initials	VOC by 8260	Sample Specific Remarks
	045163-MW122	1/7/26	0950	GW	3	CMG	X	
	045163-MW407	1/7/26	1430	GW	3	CMG	X	

Relinquished by sampler: (signature)	Date	Time	Received by: (signature)
1. CMcCallum Coner	1/7/26	1530	1. GEI SAMPLE FRIDGE
2. GEI SAMPLE FRIDGE	1/8/26	1115	2.
3.	1/8/26	1115	3. 1/8/26 1119 MCE
4. MCE	1/8/26	1705	4.
5.			5.

Turnaround Time (Business days):

Normal X 4-Day ____ 3-Day ____ 2-Day ____ 1-Day ____ Other ____

Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

Matrix Abbreviations: SO = Soil GW = Groundwater SW = Surface Water SD = Sediment CO = Concrete PC = Paint Chip CLK = Caulk

Sample Delivery Group Summary

Pace Job Number : L2601000

Account Name : GEI Consultants
Project Number : 045163
Project Name : 50 TUFTS STREET

Received : 08-JAN-2026
Reviewer : Ryan Morrissey

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	5.6	

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**NA**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NO**

ANALYTICAL REPORT

Lab Number:	L2570859
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	50 TUFTS STREET
Project Number:	045163
Report Date:	11/14/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570859
Report Date: 11/14/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2570859-01	045163-SOIL-DRUM	SOIL	SOMERVILLE, MASSACHUSETTS	11/06/25 11:00	11/07/25
L2570859-02	045163-MW402-SOIL-DRUM	SOIL	SOMERVILLE, MASSACHUSETTS	11/06/25 11:20	11/07/25
L2570859-03	045163-MW401D/S-SOIL-DRUM	SOIL	SOMERVILLE, MASSACHUSETTS	11/06/25 11:30	11/07/25

Project Name: 50 TUFTS STREET **Lab Number:** L2570859

Project Number: 045163 **Report Date:** 11/14/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E 1.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E 2.	PFAS Only: Were aqueous samples extracted without filtering?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits/lower limits of quantitation at or below all CAM reporting limits/lower limits of quantitation specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	50 TUFTS STREET	**Lab Number:**	L2570859
Project Number:	045163	**Report Date:**	11/14/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	50 TUFTS STREET	**Lab Number:**	L2570859
Project Number:	045163	**Report Date:**	11/14/25

Case Narrative (continued)

MCP Related Narratives

Volatile Organics

In reference to question H:

L2570859-03: The surrogate recovery is below the acceptance criteria for dibromofluoromethane (56%), possibly due to the matrix effect caused by the high pH of the sample (>10).

L2570859-01, -02, and -03: Initial Calibration did not meet:

Lowest Calibration Standard Minimum Response Factor: 1,4-dioxane (0.0018), 1,1,2-trichloroethane (0.1851)

Average Response Factor: 1,4-dioxane

L2570859-01, -02, and -03: The associated continuing calibration standard is outside the acceptance criteria for several compounds; however, it is within overall method allowances. Associated results are considered to be biased high if the %D is negative and biased low if the %D is positive. A copy of the continuing calibration standard is included as an addendum to this report.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 11/14/25

QC OUTLIER SUMMARY REPORT

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570859
Report Date: 11/14/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab								
8260D	045163-MW401D/S-SOIL-DRUM	L2570859-03	Dibromofluoromethane	Surrogate	56	70-130	-	potential low bias
8260D	Batch QC	WG2141270-3	Bromomethane	LCS	50	70-130	02-03	potential low bias
8260D	Batch QC	WG2141270-3	Chloroethane	LCS	60	70-130	02-03	potential low bias
8260D	Batch QC	WG2141270-3	Carbon disulfide	LCS	66	70-130	02-03	potential low bias
8260D	Batch QC	WG2141270-3	Diethyl ether	LCS	69	70-130	02-03	potential low bias
8260D	Batch QC	WG2141270-4	Bromomethane	LCSD	51	70-130	02-03	potential low bias
8260D	Batch QC	WG2141270-4	Chloroethane	LCSD	61	70-130	02-03	potential low bias
8260D	Batch QC	WG2141270-4	Carbon disulfide	LCSD	66	70-130	02-03	potential low bias
8260D	Batch QC	WG2141812-3	Bromomethane	LCS	53	70-130	01	potential low bias
8260D	Batch QC	WG2141812-3	Chloroethane	LCS	62	70-130	01	potential low bias
8260D	Batch QC	WG2141812-3	Carbon disulfide	LCS	66	70-130	01	potential low bias
8260D	Batch QC	WG2141812-4	Carbon tetrachloride	LCSD	131	70-130	01	potential high bias
8260D	Batch QC	WG2141812-4	Tetrachloroethene	LCSD	132	70-130	01	potential high bias
8260D	Batch QC	WG2141812-4	Bromomethane	LCSD	57	70-130	01	potential low bias
8260D	Batch QC	WG2141812-4	Chloroethane	LCSD	66	70-130	01	potential low bias
8260D	Batch QC	WG2141812-4	Hexachlorobutadiene	LCSD	134	70-130	01	potential high bias

ORGANICS

VOLATILES

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570859
Report Date: 11/14/25

SAMPLE RESULTS

Lab ID: L2570859-01
Client ID: 045163-SOIL-DRUM
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/06/25 11:00
Date Received: 11/07/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 11/14/25 10:50
Analyst: AJK
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	2.2	--	1
1,1-Dichloroethane	ND		ug/kg	0.44	--	1
Chloroform	ND		ug/kg	0.66	--	1
Carbon tetrachloride	ND		ug/kg	0.44	--	1
1,2-Dichloropropane	ND		ug/kg	0.44	--	1
Dibromochloromethane	ND		ug/kg	0.44	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.44	--	1
Tetrachloroethene	3.0		ug/kg	0.22	--	1
Chlorobenzene	ND		ug/kg	0.22	--	1
Trichlorofluoromethane	ND		ug/kg	1.8	--	1
1,2-Dichloroethane	ND		ug/kg	0.44	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.22	--	1
Bromodichloromethane	ND		ug/kg	0.22	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.44	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.22	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.22	--	1
1,1-Dichloropropene	ND		ug/kg	0.22	--	1
Bromoform	ND		ug/kg	1.8	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.22	--	1
Benzene	ND		ug/kg	0.22	--	1
Toluene	ND		ug/kg	0.44	--	1
Ethylbenzene	ND		ug/kg	0.44	--	1
Chloromethane	ND		ug/kg	1.8	--	1
Bromomethane	ND		ug/kg	0.89	--	1
Vinyl chloride	ND		ug/kg	0.44	--	1
Chloroethane	ND		ug/kg	0.89	--	1
1,1-Dichloroethene	ND		ug/kg	0.44	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.66	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2570859

Project Number: 045163 **Report Date:** 11/14/25

SAMPLE RESULTS

Lab ID: L2570859-01 Date Collected: 11/06/25 11:00

Client ID: 045163-SOIL-DRUM Date Received: 11/07/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.22	--	1
1,2-Dichlorobenzene	ND		ug/kg	0.89	--	1
1,3-Dichlorobenzene	ND		ug/kg	0.89	--	1
1,4-Dichlorobenzene	ND		ug/kg	0.89	--	1
Methyl tert butyl ether	ND		ug/kg	0.89	--	1
p/m-Xylene	ND		ug/kg	0.89	--	1
o-Xylene	ND		ug/kg	0.44	--	1
Xylenes, Total	ND		ug/kg	0.44	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.44	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.44	--	1
Dibromomethane	ND		ug/kg	0.89	--	1
1,2,3-Trichloropropane	ND		ug/kg	0.89	--	1
Styrene	ND		ug/kg	0.44	--	1
Dichlorodifluoromethane	ND		ug/kg	4.4	--	1
Acetone	ND		ug/kg	11	--	1
Carbon disulfide	ND		ug/kg	4.4	--	1
Methyl ethyl ketone	ND		ug/kg	4.4	--	1
Methyl isobutyl ketone	ND		ug/kg	4.4	--	1
2-Hexanone	ND		ug/kg	4.4	--	1
Bromochloromethane	ND		ug/kg	0.89	--	1
Tetrahydrofuran	ND		ug/kg	1.8	--	1
2,2-Dichloropropane	ND		ug/kg	0.89	--	1
1,2-Dibromoethane	ND		ug/kg	0.44	--	1
1,3-Dichloropropane	ND		ug/kg	0.89	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.22	--	1
Bromobenzene	ND		ug/kg	0.89	--	1
n-Butylbenzene	ND		ug/kg	0.44	--	1
sec-Butylbenzene	ND		ug/kg	0.44	--	1
tert-Butylbenzene	ND		ug/kg	0.89	--	1
o-Chlorotoluene	ND		ug/kg	0.89	--	1
p-Chlorotoluene	ND		ug/kg	0.89	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.3	--	1
Hexachlorobutadiene	ND		ug/kg	1.8	--	1
Isopropylbenzene	ND		ug/kg	0.44	--	1
p-Isopropyltoluene	ND		ug/kg	0.44	--	1
Naphthalene	ND		ug/kg	1.8	--	1
n-Propylbenzene	ND		ug/kg	0.44	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2570859

Project Number: 045163 **Report Date:** 11/14/25

SAMPLE RESULTS

Lab ID: L2570859-01 Date Collected: 11/06/25 11:00

Client ID: 045163-SOIL-DRUM Date Received: 11/07/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	0.89	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	0.89	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	0.89	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	0.89	--	1
Diethyl ether	ND		ug/kg	0.89	--	1
Diisopropyl Ether	ND		ug/kg	0.89	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	0.89	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	0.89	--	1
1,4-Dioxane	ND		ug/kg	35	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	86		70-130
4-Bromofluorobenzene	84		70-130
Dibromofluoromethane	125		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570859
Report Date: 11/14/25

SAMPLE RESULTS

Lab ID: L2570859-02
Client ID: 045163-MW402-SOIL-DRUM
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/06/25 11:20
Date Received: 11/07/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 11/13/25 18:10
Analyst: JIC
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.3	--	1
1,1-Dichloroethane	ND		ug/kg	0.66	--	1
Chloroform	ND		ug/kg	0.98	--	1
Carbon tetrachloride	ND		ug/kg	0.66	--	1
1,2-Dichloropropane	ND		ug/kg	0.66	--	1
Dibromochloromethane	ND		ug/kg	0.66	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.66	--	1
Tetrachloroethene	92		ug/kg	0.33	--	1
Chlorobenzene	ND		ug/kg	0.33	--	1
Trichlorofluoromethane	ND		ug/kg	2.6	--	1
1,2-Dichloroethane	ND		ug/kg	0.66	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.33	--	1
Bromodichloromethane	ND		ug/kg	0.33	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.66	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.33	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.33	--	1
1,1-Dichloropropene	ND		ug/kg	0.33	--	1
Bromoform	ND		ug/kg	2.6	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.33	--	1
Benzene	ND		ug/kg	0.33	--	1
Toluene	ND		ug/kg	0.66	--	1
Ethylbenzene	ND		ug/kg	0.66	--	1
Chloromethane	ND		ug/kg	2.6	--	1
Bromomethane	ND		ug/kg	1.3	--	1
Vinyl chloride	ND		ug/kg	0.66	--	1
Chloroethane	ND		ug/kg	1.3	--	1
1,1-Dichloroethene	ND		ug/kg	0.66	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.98	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2570859

Project Number: 045163 **Report Date:** 11/14/25

SAMPLE RESULTS

Lab ID: L2570859-02 Date Collected: 11/06/25 11:20

Client ID: 045163-MW402-SOIL-DRUM Date Received: 11/07/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Trichloroethene	1.5		ug/kg	0.33	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.3	--	1
Methyl tert butyl ether	ND		ug/kg	1.3	--	1
p/m-Xylene	ND		ug/kg	1.3	--	1
o-Xylene	ND		ug/kg	0.66	--	1
Xylenes, Total	ND		ug/kg	0.66	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.66	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.66	--	1
Dibromomethane	ND		ug/kg	1.3	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.3	--	1
Styrene	ND		ug/kg	0.66	--	1
Dichlorodifluoromethane	ND		ug/kg	6.6	--	1
Acetone	ND		ug/kg	16	--	1
Carbon disulfide	ND		ug/kg	6.6	--	1
Methyl ethyl ketone	ND		ug/kg	6.6	--	1
Methyl isobutyl ketone	ND		ug/kg	6.6	--	1
2-Hexanone	ND		ug/kg	6.6	--	1
Bromochloromethane	ND		ug/kg	1.3	--	1
Tetrahydrofuran	ND		ug/kg	2.6	--	1
2,2-Dichloropropane	ND		ug/kg	1.3	--	1
1,2-Dibromoethane	ND		ug/kg	0.66	--	1
1,3-Dichloropropane	ND		ug/kg	1.3	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.33	--	1
Bromobenzene	ND		ug/kg	1.3	--	1
n-Butylbenzene	ND		ug/kg	0.66	--	1
sec-Butylbenzene	ND		ug/kg	0.66	--	1
tert-Butylbenzene	ND		ug/kg	1.3	--	1
o-Chlorotoluene	ND		ug/kg	1.3	--	1
p-Chlorotoluene	ND		ug/kg	1.3	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.0	--	1
Hexachlorobutadiene	ND		ug/kg	2.6	--	1
Isopropylbenzene	ND		ug/kg	0.66	--	1
p-Isopropyltoluene	ND		ug/kg	0.66	--	1
Naphthalene	ND		ug/kg	2.6	--	1
n-Propylbenzene	ND		ug/kg	0.66	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2570859

Project Number: 045163 **Report Date:** 11/14/25

SAMPLE RESULTS

Lab ID: L2570859-02 Date Collected: 11/06/25 11:20

Client ID: 045163-MW402-SOIL-DRUM Date Received: 11/07/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.3	--	1
1,2,4-Trimethylbenzene	2.2		ug/kg	1.3	--	1
Diethyl ether	ND		ug/kg	1.3	--	1
Diisopropyl Ether	ND		ug/kg	1.3	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.3	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.3	--	1
1,4-Dioxane	ND		ug/kg	52	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	81		70-130
4-Bromofluorobenzene	72		70-130
Dibromofluoromethane	129		70-130

Project Name: 50 TUFTS STREET **Lab Number:** L2570859

Project Number: 045163 **Report Date:** 11/14/25

SAMPLE RESULTS

Lab ID: L2570859-03 Date Collected: 11/06/25 11:30

Client ID: 045163-MW401D/S-SOIL-DRUM Date Received: 11/07/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 141,8260D

Analytical Date: 11/13/25 18:38

Analyst: JIC

Percent Solids: 52%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.1	--	1
1,1-Dichloroethane	0.66		ug/kg	0.62	--	1
Chloroform	ND		ug/kg	0.93	--	1
Carbon tetrachloride	ND		ug/kg	0.62	--	1
1,2-Dichloropropane	ND		ug/kg	0.62	--	1
Dibromochloromethane	ND		ug/kg	0.62	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.62	--	1
Tetrachloroethene	46		ug/kg	0.31	--	1
Chlorobenzene	ND		ug/kg	0.31	--	1
Trichlorofluoromethane	ND		ug/kg	2.5	--	1
1,2-Dichloroethane	ND		ug/kg	0.62	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.31	--	1
Bromodichloromethane	ND		ug/kg	0.31	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.62	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.31	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.31	--	1
1,1-Dichloropropene	ND		ug/kg	0.31	--	1
Bromoform	ND		ug/kg	2.5	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.31	--	1
Benzene	ND		ug/kg	0.31	--	1
Toluene	ND		ug/kg	0.62	--	1
Ethylbenzene	1.5		ug/kg	0.62	--	1
Chloromethane	ND		ug/kg	2.5	--	1
Bromomethane	ND		ug/kg	1.2	--	1
Vinyl chloride	ND		ug/kg	0.62	--	1
Chloroethane	ND		ug/kg	1.2	--	1
1,1-Dichloroethene	ND		ug/kg	0.62	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.93	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2570859

Project Number: 045163 **Report Date:** 11/14/25

SAMPLE RESULTS

Lab ID: L2570859-03 Date Collected: 11/06/25 11:30

Client ID: 045163-MW401D/S-SOIL-DRUM Date Received: 11/07/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
Trichloroethene	1.7		ug/kg	0.31	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.2	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.2	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.2	--	1
Methyl tert butyl ether	ND		ug/kg	1.2	--	1
p/m-Xylene	5.6		ug/kg	1.2	--	1
o-Xylene	4.4		ug/kg	0.62	--	1
Xylenes, Total	10		ug/kg	0.62	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.62	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.62	--	1
Dibromomethane	ND		ug/kg	1.2	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.2	--	1
Styrene	ND		ug/kg	0.62	--	1
Dichlorodifluoromethane	ND		ug/kg	6.2	--	1
Acetone	18		ug/kg	16	--	1
Carbon disulfide	ND		ug/kg	6.2	--	1
Methyl ethyl ketone	ND		ug/kg	6.2	--	1
Methyl isobutyl ketone	ND		ug/kg	6.2	--	1
2-Hexanone	ND		ug/kg	6.2	--	1
Bromochloromethane	ND		ug/kg	1.2	--	1
Tetrahydrofuran	ND		ug/kg	2.5	--	1
2,2-Dichloropropane	ND		ug/kg	1.2	--	1
1,2-Dibromoethane	ND		ug/kg	0.62	--	1
1,3-Dichloropropane	ND		ug/kg	1.2	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.31	--	1
Bromobenzene	ND		ug/kg	1.2	--	1
n-Butylbenzene	2.4		ug/kg	0.62	--	1
sec-Butylbenzene	1.6		ug/kg	0.62	--	1
tert-Butylbenzene	ND		ug/kg	1.2	--	1
o-Chlorotoluene	ND		ug/kg	1.2	--	1
p-Chlorotoluene	ND		ug/kg	1.2	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.9	--	1
Hexachlorobutadiene	ND		ug/kg	2.5	--	1
Isopropylbenzene	0.91		ug/kg	0.62	--	1
p-Isopropyltoluene	1.1		ug/kg	0.62	--	1
Naphthalene	3.9		ug/kg	2.5	--	1
n-Propylbenzene	2.7		ug/kg	0.62	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2570859

Project Number: 045163 **Report Date:** 11/14/25

SAMPLE RESULTS

Lab ID: L2570859-03 Date Collected: 11/06/25 11:30

Client ID: 045163-MW401D/S-SOIL-DRUM Date Received: 11/07/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.2	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.2	--	1
1,3,5-Trimethylbenzene	5.1		ug/kg	1.2	--	1
1,2,4-Trimethylbenzene	20		ug/kg	1.2	--	1
Diethyl ether	ND		ug/kg	1.2	--	1
Diisopropyl Ether	ND		ug/kg	1.2	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.2	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.2	--	1
1,4-Dioxane	ND		ug/kg	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	78		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	**56**	Q	70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570859
Report Date: 11/14/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/13/25 09:04
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 02-03 Batch: WG2141270-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570859
Report Date: 11/14/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/13/25 09:04
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 02-03 Batch: WG2141270-5					
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	25	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570859
Report Date: 11/14/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/13/25 09:04
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 02-03 Batch: WG2141270-5					
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	2.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570859
Report Date: 11/14/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/13/25 09:04
Analyst: MNF

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 02-03 Batch: WG2141270-5					
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	87		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	112		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570859
Report Date: 11/14/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/14/25 10:22
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 01 Batch: WG2141812-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570859
Report Date: 11/14/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/14/25 10:22
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 01 Batch: WG2141812-5					
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	25	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570859
Report Date: 11/14/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/14/25 10:22
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 01 Batch: WG2141812-5					
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	2.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570859
Report Date: 11/14/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/14/25 10:22
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab for sample(s): 01 Batch: WG2141812-5					
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	86		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	117		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570859
Report Date: 11/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 02-03 Batch: WG2141270-3 WG2141270-4								
Methylene chloride	79		79		70-130	0		20
1,1-Dichloroethane	92		91		70-130	1		20
Chloroform	92		90		70-130	2		20
Carbon tetrachloride	112		111		70-130	1		20
1,2-Dichloropropane	94		93		70-130	1		20
Dibromochloromethane	107		110		70-130	3		20
1,1,2-Trichloroethane	96		98		70-130	2		20
Tetrachloroethene	119		117		70-130	2		20
Chlorobenzene	98		98		70-130	0		20
Trichlorofluoromethane	78		78		70-130	0		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	108		107		70-130	1		20
Bromodichloromethane	102		100		70-130	2		20
trans-1,3-Dichloropropene	100		101		70-130	1		20
cis-1,3-Dichloropropene	105		105		70-130	0		20
1,1-Dichloropropene	102		101		70-130	1		20
Bromoform	109		113		70-130	4		20
1,1,2,2-Tetrachloroethane	90		90		70-130	0		20
Benzene	97		97		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570859
Report Date: 11/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 02-03 Batch: WG2141270-3 WG2141270-4								
Toluene	92		92		70-130	0		20
Ethylbenzene	92		92		70-130	0		20
Chloromethane	93		91		70-130	2		20
Bromomethane	**50**	Q	**51**	Q	70-130	2		20
Vinyl chloride	76		72		70-130	5		20
Chloroethane	**60**	Q	**61**	Q	70-130	2		20
1,1-Dichloroethene	73		74		70-130	1		20
trans-1,2-Dichloroethene	100		99		70-130	1		20
Trichloroethene	106		104		70-130	2		20
1,2-Dichlorobenzene	99		99		70-130	0		20
1,3-Dichlorobenzene	102		100		70-130	2		20
1,4-Dichlorobenzene	98		98		70-130	0		20
Methyl tert butyl ether	96		97		70-130	1		20
p/m-Xylene	93		95		70-130	2		20
o-Xylene	91		92		70-130	1		20
cis-1,2-Dichloroethene	98		97		70-130	1		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	90		89		70-130	1		20
Styrene	93		94		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570859
Report Date: 11/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 02-03 Batch: WG2141270-3 WG2141270-4								
Dichlorodifluoromethane	114		110		70-130	4		20
Acetone	104		103		70-130	1		20
Carbon disulfide	**66**	Q	**66**	Q	70-130	0		20
Methyl ethyl ketone	105		107		70-130	2		20
Methyl isobutyl ketone	87		86		70-130	1		20
2-Hexanone	78		79		70-130	1		20
Bromochloromethane	107		109		70-130	2		20
Tetrahydrofuran	86		88		70-130	2		20
2,2-Dichloropropane	96		95		70-130	1		20
1,2-Dibromoethane	104		106		70-130	2		20
1,3-Dichloropropane	94		96		70-130	2		20
1,1,1,2-Tetrachloroethane	107		110		70-130	3		20
Bromobenzene	102		100		70-130	2		20
n-Butylbenzene	96		96		70-130	0		20
sec-Butylbenzene	93		92		70-130	1		20
tert-Butylbenzene	92		92		70-130	0		20
o-Chlorotoluene	92		89		70-130	3		20
p-Chlorotoluene	90		90		70-130	0		20
1,2-Dibromo-3-chloropropane	97		95		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570859
Report Date: 11/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 02-03 Batch: WG2141270-3 WG2141270-4								
Hexachlorobutadiene	124		122		70-130	2		20
Isopropylbenzene	90		89		70-130	1		20
p-Isopropyltoluene	94		93		70-130	1		20
Naphthalene	93		92		70-130	1		20
n-Propylbenzene	93		91		70-130	2		20
1,2,3-Trichlorobenzene	105		104		70-130	1		20
1,2,4-Trichlorobenzene	105		104		70-130	1		20
1,3,5-Trimethylbenzene	93		92		70-130	1		20
1,2,4-Trimethylbenzene	93		92		70-130	1		20
Diethyl ether	**69**	Q	70		70-130	1		20
Diisopropyl Ether	100		100		70-130	0		20
Ethyl-Tert-Butyl-Ether	92		93		70-130	1		20
Tertiary-Amyl Methyl Ether	91		92		70-130	1		20
1,4-Dioxane	101		104		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570859
Report Date: 11/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 02-03 Batch: WG2141270-3 WG2141270-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		96		70-130
Toluene-d8	92		94		70-130
4-Bromofluorobenzene	95		89		70-130
Dibromofluoromethane	99		99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570859
Report Date: 11/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 01 Batch: WG2141812-3 WG2141812-4								
Methylene chloride	86		82		70-130	5		20
1,1-Dichloroethane	94		97		70-130	3		20
Chloroform	98		100		70-130	2		20
Carbon tetrachloride	123		**131**	Q	70-130	6		20
1,2-Dichloropropane	93		96		70-130	3		20
Dibromochloromethane	113		116		70-130	3		20
1,1,2-Trichloroethane	100		99		70-130	1		20
Tetrachloroethene	118		**132**	Q	70-130	11		20
Chlorobenzene	99		105		70-130	6		20
Trichlorofluoromethane	85		92		70-130	8		20
1,2-Dichloroethane	108		106		70-130	2		20
1,1,1-Trichloroethane	115		123		70-130	7		20
Bromodichloromethane	106		107		70-130	1		20
trans-1,3-Dichloropropene	99		101		70-130	2		20
cis-1,3-Dichloropropene	101		104		70-130	3		20
1,1-Dichloropropene	102		111		70-130	8		20
Bromoform	112		112		70-130	0		20
1,1,2,2-Tetrachloroethane	89		86		70-130	3		20
Benzene	98		103		70-130	5		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570859
Report Date: 11/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 01 Batch: WG2141812-3 WG2141812-4								
Toluene	90		97		70-130	7		20
Ethylbenzene	90		98		70-130	9		20
Chloromethane	96		100		70-130	4		20
Bromomethane	**53**	Q	**57**	Q	70-130	7		20
Vinyl chloride	72		79		70-130	9		20
Chloroethane	**62**	Q	**66**	Q	70-130	6		20
1,1-Dichloroethene	76		80		70-130	5		20
trans-1,2-Dichloroethene	102		107		70-130	5		20
Trichloroethene	109		116		70-130	6		20
1,2-Dichlorobenzene	102		104		70-130	2		20
1,3-Dichlorobenzene	104		105		70-130	1		20
1,4-Dichlorobenzene	100		103		70-130	3		20
Methyl tert butyl ether	98		96		70-130	2		20
p/m-Xylene	94		101		70-130	7		20
o-Xylene	92		99		70-130	7		20
cis-1,2-Dichloroethene	100		104		70-130	4		20
Dibromomethane	106		106		70-130	0		20
1,2,3-Trichloropropane	87		85		70-130	2		20
Styrene	91		97		70-130	6		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570859
Report Date: 11/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 01 Batch: WG2141812-3 WG2141812-4								
Dichlorodifluoromethane	118		126		70-130	7		20
Acetone	112		101		70-130	10		20
Carbon disulfide	**66**	Q	71		70-130	7		20
Methyl ethyl ketone	107		103		70-130	4		20
Methyl isobutyl ketone	81		79		70-130	3		20
2-Hexanone	70		73		70-130	4		20
Bromochloromethane	116		118		70-130	2		20
Tetrahydrofuran	84		84		70-130	0		20
2,2-Dichloropropane	100		104		70-130	4		20
1,2-Dibromoethane	106		107		70-130	1		20
1,3-Dichloropropane	93		95		70-130	2		20
1,1,1,2-Tetrachloroethane	111		118		70-130	6		20
Bromobenzene	103		102		70-130	1		20
n-Butylbenzene	95		100		70-130	5		20
sec-Butylbenzene	92		98		70-130	6		20
tert-Butylbenzene	92		97		70-130	5		20
o-Chlorotoluene	91		92		70-130	1		20
p-Chlorotoluene	89		90		70-130	1		20
1,2-Dibromo-3-chloropropane	101		100		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570859
Report Date: 11/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 01 Batch: WG2141812-3 WG2141812-4								
Hexachlorobutadiene	128		**134**	Q	70-130	5		20
Isopropylbenzene	88		93		70-130	6		20
p-Isopropyltoluene	93		98		70-130	5		20
Naphthalene	93		93		70-130	0		20
n-Propylbenzene	91		93		70-130	2		20
1,2,3-Trichlorobenzene	111		109		70-130	2		20
1,2,4-Trichlorobenzene	108		108		70-130	0		20
1,3,5-Trimethylbenzene	91		94		70-130	3		20
1,2,4-Trimethylbenzene	92		95		70-130	3		20
Diethyl ether	70		72		70-130	3		20
Diisopropyl Ether	97		98		70-130	1		20
Ethyl-Tert-Butyl-Ether	92		92		70-130	0		20
Tertiary-Amyl Methyl Ether	91		93		70-130	2		20
1,4-Dioxane	97		97		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570859
Report Date: 11/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035/8260 Low - Westborough Lab Associated sample(s): 01 Batch: WG2141812-3 WG2141812-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		97		70-130
Toluene-d8	89		90		70-130
4-Bromofluorobenzene	94		85		70-130
Dibromofluoromethane	106		102		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570859
Report Date: 11/14/25

SAMPLE RESULTS

Lab ID: L2570859-01
Client ID: 045163-SOIL-DRUM
Sample Location: SOMERVILLE, MASSACHUSETTS
Sample Depth:
Matrix: Soil

Date Collected: 11/06/25 11:00
Date Received: 11/07/25
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.7		%	0.100	NA	1	-	11/08/25 11:13	121,2540G	ROI
pH (H)	5.67		SU	-	NA	1	-	11/10/25 12:42	1,9045D	LOF
Flash Point	>150		deg F	70	NA	1	-	11/14/25 11:40	1,1010A	MRM

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570859
Report Date: 11/14/25

SAMPLE RESULTS

Lab ID: L2570859-02
Client ID: 045163-MW402-SOIL-DRUM
Sample Location: SOMERVILLE, MASSACHUSETTS

Date Collected: 11/06/25 11:20
Date Received: 11/07/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.8		%	0.100	NA	1	-	11/08/25 11:13	121,2540G	ROI
pH (H)	8.53		SU	-	NA	1	-	11/10/25 12:42	1,9045D	LOF
Flash Point	>150		deg F	70	NA	1	-	11/14/25 11:40	1,1010A	MRM

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570859
Report Date: 11/14/25

SAMPLE RESULTS

Lab ID: L2570859-03
Client ID: 045163-MW401D/S-SOIL-DRUM
Sample Location: SOMERVILLE, MASSACHUSETTS
Sample Depth:
Matrix: Soil

Date Collected: 11/06/25 11:30
Date Received: 11/07/25
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	51.8		%	0.100	NA	1	-	11/08/25 11:13	121,2540G	ROI
pH (H)	11.9		SU	-	NA	1	-	11/10/25 12:42	1,9045D	LOF
Flash Point	>150		deg F	70	NA	1	-	11/14/25 11:40	1,1010A	MRM

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570859
Report Date: 11/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG2139566-1								
pH	99		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG2141765-1								
Flash Point	101		-		96-104	-		

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570859
Report Date: 11/14/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2570859-01A	Vial MeOH preserved	NA	NA			Y	Absent		MCP-8260HLW-21(14)
L2570859-01B	Vial water preserved	NA	NA			Y	Absent	07-NOV-25 21:18	MCP-8260HLW-21(14)
L2570859-01C	Vial water preserved	NA	NA			Y	Absent	07-NOV-25 21:18	MCP-8260HLW-21(14)
L2570859-01D	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		TS(7),FLASH(),PH-9045(1)
L2570859-02A	Vial MeOH preserved	NA	NA			Y	Absent		MCP-8260HLW-21(14)
L2570859-02B	Vial water preserved	NA	NA			Y	Absent	07-NOV-25 21:18	MCP-8260HLW-21(14)
L2570859-02C	Vial water preserved	NA	NA			Y	Absent	07-NOV-25 21:18	MCP-8260HLW-21(14)
L2570859-02D	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		FLASH(),TS(7),PH-9045(1)
L2570859-03A	Vial MeOH preserved	NA	NA			Y	Absent		MCP-8260HLW-21(14)
L2570859-03B	Vial water preserved	NA	NA			Y	Absent	07-NOV-25 21:18	MCP-8260HLW-21(14)
L2570859-03C	Vial water preserved	NA	NA			Y	Absent	07-NOV-25 21:18	MCP-8260HLW-21(14)
L2570859-03D	Glass 250ml/8oz unpreserved	NA	NA			Y	Absent		TS(7),FLASH(),PH-9045(1)

*Values in parentheses indicate holding time in days

Project Name:	50 TUFTS STREET	**Lab Number:**	L2570859
Project Number:	045163	**Report Date:**	11/14/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	50 TUFTS STREET	**Lab Number:**	L2570859
Project Number:	045163	**Report Date:**	11/14/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	50 TUFTS STREET	**Lab Number:**	L2570859
Project Number:	045163	**Report Date:**	11/14/25

Data Qualifiers

ND	- Not detected at the reporting limit (RL) for the sample.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
S	- Analytical results are from modified screening analysis.
V	- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
Z	- The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570859
Report Date: 11/14/25

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

141 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA and IIB, November 2021.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY kY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
MA M-MA00030, CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

Chain-of-Custody Record

Laboratory: Pace

Laboratory Job # (Lab use only) 25 10857

GEI Consultants
400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000

Project Information

Project Name: 50 Tufts Street

Project Number: 045163

Project Location: Somerville, MA

Project Manager: Chris Coner

Send Report to: cconer@geiconsultants.com

labdata@geiconsultants.com

MCP PRESUMPTIVE CERTAINTY AND MCP ANALYTICAL METHODS REQUIRED: (YES) NO

STATE AND FEDERAL REGULATORY REQUIREMENTS/REPORT LIMITS

State/Federal Program: (MA) 401WQC Other _____ NH RI CT NY ME

MA MCP Criteria are Method 1 S-1 and GW-2/GW-3. Circle if GW-1 is required.

Preservative

Analysis

Sample Handling

Samples Field Filtered: YES (NO) NA

Sampled Shipped With Ice: YES (NO)

Lab Sample Number	GEI Sample ID	Collection Date	Collection Time	Matrix	No. of Bottles	Sampler(s) Initials	DI/HCl	VOC 8260	Flashpoint	pH	Sample Specific Remarks
10857-01	045163-SOIL-DRUM	11/6/2025	11:00	SO	4	CMG		X	X	X	
-02	045163-MW402-SOIL-DRUM	11/6/2025	11:20	SO	4	CMG		X	X	X	
-03	045163-MW401D/S-SOIL-DRUM	11/6/2025	11:30	SO	4	CMG		X	X	X	

	Relinquished by sampler: (signature)	Date	Time	Received by: (signature)
1.	C McCallum/CMG	11/6/25	1220	1. GEI Sample Fridge
2.	GEI Sample Fridge	11/7/25	13:35	2. NT
3.	NT	11/7/25	13:35	3. Price 11/7/25 13:35
4.	Price	11/7/25	17:20	4. 11/7/25 1720
5.				5.

Turnaround Time (Business days):

5-Day __X__ 4-Day ____ 3-Day ____

2-Day ____ 1-Day ____ Other ____

Before submitting rush turnaround samples, you **must** notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

RUN TCLP if 20X Rule is exceeded

Sample Matrix Abbreviations: SO = Soil GW = Groundwater SW = Surface Water SD = Sediment CO = Concrete PC = Paint Chip CLK = Caulk

Method Blank Summary
Form 4
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2570859
Project Name	: 50 TUFTS STREET	**Project Number**	: 045163
Lab Sample ID	: WG2141270-5	**Lab File ID**	: V10251113A05
Instrument ID	: VOA110		
Matrix	: SOIL	**Analysis Date**	: 11/13/25 09:04

Client Sample No.	Lab Sample ID	Analysis Date
WG2141270-3LCS	WG2141270-3	11/13/25 07:15
WG2141270-4LCSD	WG2141270-4	11/13/25 07:42
045163-MW402-SOIL-DRUM	L2570859-02	11/13/25 18:10
045163-MW401D/S-SOIL-DRUM	L2570859-03	11/13/25 18:38

Method Blank Summary
Form 4
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2570859
Project Name	: 50 TUFTS STREET	**Project Number**	: 045163
Lab Sample ID	: WG2141812-5	**Lab File ID**	: V10251114A05
Instrument ID	: VOA110		
Matrix	: SOIL	**Analysis Date**	: 11/14/25 10:22

Client Sample No.	Lab Sample ID	Analysis Date
WG2141812-3LCS	WG2141812-3	11/14/25 08:34
WG2141812-4LCSD	WG2141812-4	11/14/25 09:01
045163-SOIL-DRUM	L2570859-01	11/14/25 10:50

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2570859
Project Name	: 50 TUFTS STREET	**Project Number**	: 045163
Instrument ID	: VOA110	**Calibration Date**	: 11/13/25 07:15
Lab File ID	: V10251113A01	**Init. Calib. Date(s)**	: 09/15/25 09/15/25
Sample No	: WG2141270-2	**Init. Calib. Times**	: 14:50 19:48
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	180	0
Dichlorodifluoromethane	0.233	0.267	-	-14.6	20	184	0
Chloromethane	0.269	0.25	-	7.1	20	176	0
Vinyl chloride	0.307	0.232	-	24.4*	20	128	0
Bromomethane	0.283	0.142	-	49.8*	20	95	0
Chloroethane	0.229	0.138	-	39.7*	20	109	0
Trichlorofluoromethane	0.424	0.331	-	21.9*	20	126	0
Ethyl ether	0.198	0.136	-	31.3*	20	126	0
1,1-Dichloroethene	0.259	0.19	-	26.6*	20	128	0
Carbon disulfide	0.958	0.634	-	33.8*	20	118	0
Freon-113	0.245	0.198	-	19.2	20	129	0
Acrolein	40	22.312	-	44.2*	20	111	0
Methylene chloride	0.276	0.219	-	20.7*	20	160	0
Acetone	40	41.646	-	-4.1	20	200	0
trans-1,2-Dichloroethene	0.246	0.247	-	-0.4	20	178	0
Methyl acetate	0.164	0.171	-	-4.3	20	193	0
Methyl tert-butyl ether	0.76	0.733	-	3.6	20	173	0
tert-Butyl alcohol	0.043	0.034	-	20.9*	20	158	0
Diisopropyl ether	0.676	0.678	-	-0.3	20	181	0
1,1-Dichloroethane	0.439	0.401	-	8.7	20	165	0
Halothane	0.177	0.198	-	-11.9	20	194	0
Acrylonitrile	0.085	0.083	-	2.4	20	178	0
Ethyl tert-butyl ether	0.713	0.654	-	8.3	20	165	0
Vinyl acetate	0.481	0.57	-	-18.5	20	222	0
cis-1,2-Dichloroethene	0.272	0.267	-	1.8	20	177	0
2,2-Dichloropropane	0.37	0.357	-	3.5	20	175	0
Bromochloromethane	0.131	0.14	-	-6.9	20	199	0
Cyclohexane	0.344	0.358	-	-4.1	20	165	0
Chloroform	0.452	0.418	-	7.5	20	180	0
Ethyl acetate	0.236	0.242	-	-2.5	20	191	0
Carbon tetrachloride	0.321	0.361	-	-12.5	20	188	0
Tetrahydrofuran	0.091	0.078	-	14.3	20	164	0
Dibromofluoromethane	0.269	0.265	-	1.5	20	177	0
1,1,1-Trichloroethane	0.351	0.379	-	-8	20	183	0
2-Butanone	0.098	0.103	-	-5.1	20	187	0
1,1-Dichloropropene	0.296	0.303	-	-2.4	20	173	0
Benzene	0.928	0.898	-	3.2	20	171	0
tert-Amyl methyl ether	0.704	0.643	-	8.7	20	163	0
1,2-Dichloroethane-d4	0.275	0.263	-	4.4	20	174	0
1,2-Dichloroethane	0.311	0.313	-	-0.6	20	184	0
Methyl cyclohexane	40	35.511	-	11.2	20	165	0
Trichloroethene	0.247	0.261	-	-5.7	20	188	0
Dibromomethane	0.156	0.156	-	0	20	185	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		**Lab Number**	: L2570859	
Project Name	: 50 TUFTS STREET		**Project Number**	: 045163	
Instrument ID	: VOA110		**Calibration Date**	: 11/13/25 07:15	
Lab File ID	: V10251113A01		**Init. Calib. Date(s)**	: 09/15/25	09/15/25
Sample No	: WG2141270-2		**Init. Calib. Times**	: 14:50	19:48
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.242	0.228	-	5.8	20	170	0
Bromodichloromethane	0.335	0.341	-	-1.8	20	181	0
1,4-Dioxane	0.00287	0.0029*	-	-1	20	170	0
cis-1,3-Dichloropropene	0.381	0.4	-	-5	20	177	0
Chlorobenzene-d5	1	1	-	0	20	192	0
Toluene-d8	1.234	1.137	-	7.9	20	173	0
Toluene	0.753	0.693	-	8	20	174	0
4-Methyl-2-pentanone	0.112	0.098	-	12.5	20	153	0
Tetrachloroethene	0.297	0.354	-	-19.2	20	215	0
trans-1,3-Dichloropropene	0.435	0.436	-	-0.2	20	184	0
Ethyl methacrylate	0.38	0.338	-	11.1	20	162	0
1,1,2-Trichloroethane	0.219	0.209	-	4.6	20	177	0
Chlorodibromomethane	0.32	0.343	-	-7.2	20	199	0
1,3-Dichloropropane	0.458	0.429	-	6.3	20	178	0
1,2-Dibromoethane	0.269	0.28	-	-4.1	20	189	0
2-Hexanone	0.22	0.171	-	22.3*	20	158	0
Chlorobenzene	0.864	0.848	-	1.9	20	182	0
Ethylbenzene	1.443	1.321	-	8.5	20	172	0
1,1,1,2-Tetrachloroethane	0.312	0.335	-	-7.4	20	194	0
p/m Xylene	0.578	0.535	-	7.4	20	171	0
o Xylene	0.575	0.523	-	9	20	167	0
Styrene	0.969	0.898	-	7.3	20	167	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	192	0
Bromoform	0.398	0.435	-	-9.3	20	203	0
Isopropylbenzene	2.501	2.256	-	9.8	20	166	0
4-Bromofluorobenzene	0.839	0.8	-	4.6	20	187	0
Bromobenzene	0.675	0.686	-	-1.6	20	192	0
n-Propylbenzene	2.89	2.689	-	7	20	170	0
1,4-Dichlorobutane	0.841	0.721	-	14.3	20	167	0
1,1,2,2-Tetrachloroethane	0.682	0.614	-	10	20	167	0
4-Ethyltoluene	2.553	2.344	-	8.2	20	171	0
2-Chlorotoluene	1.769	1.634	-	7.6	20	173	0
1,3,5-Trimethylbenzene	2.178	2.018	-	7.3	20	172	0
1,2,3-Trichloropropane	0.55	0.496	-	9.8	20	170	0
trans-1,4-Dichloro-2-buten	0.198	0.182	-	8.1	20	173	0
4-Chlorotoluene	1.863	1.682	-	9.7	20	168	0
tert-Butylbenzene	1.882	1.741	-	7.5	20	167	0
1,2,4-Trimethylbenzene	2.149	1.993	-	7.3	20	168	0
sec-Butylbenzene	2.722	2.536	-	6.8	20	165	0
p-Isopropyltoluene	2.444	2.302	-	5.8	20	167	0
1,3-Dichlorobenzene	1.304	1.326	-	-1.7	20	188	0
1,4-Dichlorobenzene	1.352	1.327	-	1.8	20	184	0
p-Diethylbenzene	1.477	1.373	-	7	20	166	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		**Lab Number**	: L2570859	
Project Name	: 50 TUFTS STREET		**Project Number**	: 045163	
Instrument ID	: VOA110		**Calibration Date**	: 11/13/25 07:15	
Lab File ID	: V10251113A01		**Init. Calib. Date(s)**	: 09/15/25	09/15/25
Sample No	: WG2141270-2		**Init. Calib. Times**	: 14:50	19:48
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	2.061	1.988	-	3.5	20	172	0
1,2-Dichlorobenzene	1.248	1.24	-	0.6	20	182	0
1,2,4,5-Tetramethylbenzene	2.355	2.126	-	9.7	20	162	0
1,2-Dibromo-3-chloropropan	0.136	0.132	-	2.9	20	181	0
1,3,5-Trichlorobenzene	0.963	1.026	-	-6.5	20	197	0
Hexachlorobutadiene	0.43	0.534	-	-24.2*	20	219	0
1,2,4-Trichlorobenzene	0.867	0.907	-	-4.6	20	193	0
Naphthalene	2.343	2.168	-	7.5	20	174	0
1,2,3-Trichlorobenzene	0.843	0.888	-	-5.3	20	198	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2570859
Project Name	: 50 TUFTS STREET	**Project Number**	: 045163
Instrument ID	: VOA110	**Calibration Date**	: 11/14/25 08:34
Lab File ID	: V10251114A01	**Init. Calib. Date(s)**	: 09/15/25 09/15/25
Sample No	: WG2141812-2	**Init. Calib. Times**	: 14:50 19:48
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	140	0
Dichlorodifluoromethane	0.233	0.277	-	-18.9	20	148	0
Chloromethane	0.269	0.258	-	4.1	20	142	0
Vinyl chloride	0.307	0.222	-	27.7*	20	95	0
Bromomethane	0.283	0.151	-	46.6*	20	79	0
Chloroethane	0.229	0.141	-	38.4*	20	87	0
Trichlorofluoromethane	0.424	0.361	-	14.9	20	107	0
Ethyl ether	0.198	0.138	-	30.3*	20	100	0
1,1-Dichloroethene	0.259	0.196	-	24.3*	20	103	0
Carbon disulfide	0.958	0.635	-	33.7*	20	92	0
Freon-113	0.245	0.204	-	16.7	20	104	0
Acrolein	40	20.102	-	49.7*	20	79	0
Methylene chloride	0.276	0.239	-	13.4	20	136	0
Acetone	40	44.696	-	-11.7	20	167	0
trans-1,2-Dichloroethene	0.246	0.252	-	-2.4	20	141	0
Methyl acetate	0.164	0.172	-	-4.9	20	151	0
Methyl tert-butyl ether	0.76	0.742	-	2.4	20	136	0
tert-Butyl alcohol	0.043	0.033	-	23.3*	20	119	0
Diisopropyl ether	0.676	0.658	-	2.7	20	137	0
1,1-Dichloroethane	0.439	0.411	-	6.4	20	132	0
Halothane	0.177	0.205	-	-15.8	20	157	0
Acrylonitrile	0.085	0.083	-	2.4	20	138	0
Ethyl tert-butyl ether	0.713	0.654	-	8.3	20	128	0
Vinyl acetate	0.481	0.583	-	-21.2*	20	177	0
cis-1,2-Dichloroethene	0.272	0.273	-	-0.4	20	141	0
2,2-Dichloropropane	0.37	0.369	-	0.3	20	141	0
Bromochloromethane	0.131	0.153	-	-16.8	20	168	0
Cyclohexane	0.344	0.342	-	0.6	20	122	0
Chloroform	0.452	0.441	-	2.4	20	148	0
Ethyl acetate	0.236	0.243	-	-3	20	149	0
Carbon tetrachloride	0.321	0.396	-	-23.4*	20	160	0
Tetrahydrofuran	0.091	0.076	-	16.5	20	125	0
Dibromofluoromethane	0.269	0.284	-	-5.6	20	148	0
1,1,1-Trichloroethane	0.351	0.405	-	-15.4	20	152	0
2-Butanone	0.098	0.105	-	-7.1	20	148	0
1,1-Dichloropropene	0.296	0.303	-	-2.4	20	135	0
Benzene	0.928	0.912	-	1.7	20	135	0
tert-Amyl methyl ether	0.704	0.643	-	8.7	20	127	0
1,2-Dichloroethane-d4	0.275	0.28	-	-1.8	20	144	0
1,2-Dichloroethane	0.311	0.336	-	-8	20	154	0
Methyl cyclohexane	40	35.022	-	12.4	20	127	0
Trichloroethene	0.247	0.268	-	-8.5	20	151	0
Dibromomethane	0.156	0.166	-	-6.4	20	154	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2570859
Project Name	: 50 TUFTS STREET	**Project Number**	: 045163
Instrument ID	: VOA110	**Calibration Date**	: 11/14/25 08:34
Lab File ID	: V10251114A01	**Init. Calib. Date(s)**	: 09/15/25 09/15/25
Sample No	: WG2141812-2	**Init. Calib. Times**	: 14:50 19:48
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.242	0.225	-	7	20	131	0
Bromodichloromethane	0.335	0.354	-	-5.7	20	146	0
1,4-Dioxane	0.00287	0.00279*	-	2.8	20	127	0
cis-1,3-Dichloropropene	0.381	0.386	-	-1.3	20	133	0
Chlorobenzene-d5	1	1	-	0	20	158	0
Toluene-d8	1.234	1.093	-	11.4	20	137	0
Toluene	0.753	0.675	-	10.4	20	140	0
4-Methyl-2-pentanone	0.112	0.091	-	18.8	20	118	0
Tetrachloroethene	0.297	0.352	-	-18.5	20	176	0
trans-1,3-Dichloropropene	0.435	0.432	-	0.7	20	151	0
Ethyl methacrylate	0.38	0.326	-	14.2	20	128	0
1,1,2-Trichloroethane	0.219	0.218	-	0.5	20	152	0
Chlorodibromomethane	0.32	0.362	-	-13.1	20	173	0
1,3-Dichloropropane	0.458	0.427	-	6.8	20	146	0
1,2-Dibromoethane	0.269	0.285	-	-5.9	20	158	0
2-Hexanone	0.22	0.154	-	30*	20	117	0
Chlorobenzene	0.864	0.858	-	0.7	20	152	0
Ethylbenzene	1.443	1.298	-	10	20	139	0
1,1,1,2-Tetrachloroethane	0.312	0.348	-	-11.5	20	166	0
p/m Xylene	0.578	0.542	-	6.2	20	143	0
o Xylene	0.575	0.527	-	8.3	20	139	0
Styrene	0.969	0.886	-	8.6	20	136	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	165	0
Bromoform	0.398	0.445	-	-11.8	20	179	0
Isopropylbenzene	2.501	2.188	-	12.5	20	139	0
4-Bromofluorobenzene	0.839	0.785	-	6.4	20	158	0
Bromobenzene	0.675	0.694	-	-2.8	20	168	0
n-Propylbenzene	2.89	2.617	-	9.4	20	142	0
1,4-Dichlorobutane	0.841	0.697	-	17.1	20	139	0
1,1,2,2-Tetrachloroethane	0.682	0.607	-	11	20	142	0
4-Ethyltoluene	2.553	2.302	-	9.8	20	145	0
2-Chlorotoluene	1.769	1.603	-	9.4	20	146	0
1,3,5-Trimethylbenzene	2.178	1.979	-	9.1	20	145	0
1,2,3-Trichloropropane	0.55	0.48	-	12.7	20	142	0
trans-1,4-Dichloro-2-buten	0.198	0.176	-	11.1	20	145	0
4-Chlorotoluene	1.863	1.652	-	11.3	20	142	0
tert-Butylbenzene	1.882	1.741	-	7.5	20	144	0
1,2,4-Trimethylbenzene	2.149	1.985	-	7.6	20	145	0
sec-Butylbenzene	2.722	2.505	-	8	20	141	0
p-Isopropyltoluene	2.444	2.269	-	7.2	20	142	0
1,3-Dichlorobenzene	1.304	1.358	-	-4.1	20	165	0
1,4-Dichlorobenzene	1.352	1.36	-	-0.6	20	163	0
p-Diethylbenzene	1.477	1.354	-	8.3	20	141	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		**Lab Number**	: L2570859	
Project Name	: 50 TUFTS STREET		**Project Number**	: 045163	
Instrument ID	: VOA110		**Calibration Date**	: 11/14/25 08:34	
Lab File ID	: V10251114A01		**Init. Calib. Date(s)**	: 09/15/25	09/15/25
Sample No	: WG2141812-2		**Init. Calib. Times**	: 14:50	19:48
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	2.061	1.965	-	4.7	20	146	0
1,2-Dichlorobenzene	1.248	1.271	-	-1.8	20	161	0
1,2,4,5-Tetramethylbenzene	2.355	2.164	-	8.1	20	142	0
1,2-Dibromo-3-chloropropan	0.136	0.138	-	-1.5	20	162	0
1,3,5-Trichlorobenzene	0.963	1.058	-	-9.9	20	175	0
Hexachlorobutadiene	0.43	0.55	-	-27.9*	20	195	0
1,2,4-Trichlorobenzene	0.867	0.94	-	-8.4	20	173	0
Naphthalene	2.343	2.185	-	6.7	20	151	0
1,2,3-Trichlorobenzene	0.843	0.937	-	-11.2	20	179	0

*** Value outside of QC limits.**

Sample Delivery Group Summary

Pace Job Number : L2570859

Account Name : GEI Consultants
Project Number : 045163
Project Name : 50 TUFTS STREET

Received : 07-NOV-2025
Reviewer : Harmony Evans

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	4.3	

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**NA**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NO**

ANALYTICAL REPORT

Lab Number:	L2570871
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	50 TUFTS STREET
Project Number:	045163
Report Date:	11/14/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570871
Report Date: 11/14/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2570871-01	045163-MW404-DRUM	WATER	SOMERVILLE, MASSACHUSETTS	11/06/25 09:30	11/07/25
L2570871-02	045163-MW403-DRUM	WATER	SOMERVILLE, MASSACHUSETTS	11/06/25 09:40	11/07/25
L2570871-03	045163-MW401-DRUM	WATER	SOMERVILLE, MASSACHUSETTS	11/06/25 10:00	11/07/25
L2570871-04	045163-MW402-DRUM	WATER	SOMERVILLE, MASSACHUSETTS	11/06/25 10:20	11/07/25
L2570871-05	TRIP BLANK	WATER	SOMERVILLE, MASSACHUSETTS	11/04/25 00:00	11/07/25

Project Name: 50 TUFTS STREET **Lab Number:** L2570871

Project Number: 045163 **Report Date:** 11/14/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E 1.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E 2.	PFAS Only: Were aqueous samples extracted without filtering?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits/lower limits of quantitation at or below all CAM reporting limits/lower limits of quantitation specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	50 TUFTS STREET	**Lab Number:**	L2570871
Project Number:	045163	**Report Date:**	11/14/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 50 TUFTS STREET **Lab Number:** L2570871
Project Number: 045163 **Report Date:** 11/14/25

Case Narrative (continued)

MCP Related Narratives

Sample Receipt

L2570871-05: A sample identified as "TRIP BLANK" was received, but not listed on the chain of custody. At the client's request, this sample was analyzed.

Volatile Organics

In reference to question G:

L2570871-01D, -02D, -03D, and -04D: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

L2570871-02D and -03D: Initial Calibration did not meet:

Lowest Calibration Standard Minimum Response Factor: 1,4-dioxane (0.0015)

Average Response Factor: 1,4-dioxane

L2570871-01D, -04D, and -05: Initial Calibration did not meet:

Lowest Calibration Standard Minimum Response Factor: cis-1,2-dichloroethane (0.1651), 1,2-dichloropropane (0.1813), bromochloromethane (0.783), bromodichloromethane (0.2138), 1,4-dioxane (0.0012), cis-1,3-dichloropropene (0.2955), 1,1,2-trichloroethane (0.1591), 1,2-dibromoethane (0.1794)

Average Response: cis-1,2-dichloroethane, bromochloromethane, trichloroethene, bromodichloromethane, 1,4-dioxane, 1,1,2-trichloroethane, 1,2-dibromoethane

L2570871-01D, -02D, -03D, -04D, and -05: The associated continuing calibration standard is outside the acceptance criteria for several compounds; however, it is within overall method allowances. Associated results are considered to be biased high if the %D is negative and biased low if the %D is positive. A copy of the continuing calibration standard is included as an addendum to this report.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker Cristin Walker

Title: Technical Director/Representative Date: 11/14/25

QC OUTLIER SUMMARY REPORT

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570871
Report Date: 11/14/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
MCP Volatile Organics - Westborough Lab								
8260D	Batch QC	WG2140610-3	Bromomethane	LCS	69	70-130	01,04-05	potential low bias

ORGANICS

VOLATILES

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570871
Report Date: 11/14/25

SAMPLE RESULTS

Lab ID: L2570871-01 D
Client ID: 045163-MW404-DRUM
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/06/25 09:30
Date Received: 11/07/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/11/25 10:23
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	1000	--	500
1,1-Dichloroethane	ND		ug/l	500	--	500
Chloroform	ND		ug/l	500	--	500
Carbon tetrachloride	ND		ug/l	500	--	500
1,2-Dichloropropane	ND		ug/l	500	--	500
Dibromochloromethane	ND		ug/l	500	--	500
1,1,2-Trichloroethane	ND		ug/l	500	--	500
Tetrachloroethene	64000		ug/l	500	--	500
Chlorobenzene	ND		ug/l	500	--	500
Trichlorofluoromethane	ND		ug/l	1000	--	500
1,2-Dichloroethane	ND		ug/l	500	--	500
1,1,1-Trichloroethane	ND		ug/l	500	--	500
Bromodichloromethane	ND		ug/l	500	--	500
trans-1,3-Dichloropropene	ND		ug/l	200	--	500
cis-1,3-Dichloropropene	ND		ug/l	200	--	500
1,3-Dichloropropene, Total	ND		ug/l	200	--	500
1,1-Dichloropropene	ND		ug/l	1000	--	500
Bromoform	ND		ug/l	1000	--	500
1,1,2,2-Tetrachloroethane	ND		ug/l	500	--	500
Benzene	ND		ug/l	250	--	500
Toluene	ND		ug/l	500	--	500
Ethylbenzene	ND		ug/l	500	--	500
Chloromethane	ND		ug/l	1000	--	500
Bromomethane	ND		ug/l	1000	--	500
Vinyl chloride	ND		ug/l	500	--	500
Chloroethane	ND		ug/l	1000	--	500
1,1-Dichloroethene	ND		ug/l	500	--	500
trans-1,2-Dichloroethene	ND		ug/l	500	--	500

Project Name: 50 TUFTS STREET **Lab Number:** L2570871

Project Number: 045163 **Report Date:** 11/14/25

SAMPLE RESULTS

Lab ID: L2570871-01 D Date Collected: 11/06/25 09:30

Client ID: 045163-MW404-DRUM Date Received: 11/07/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Trichloroethene	1800		ug/l	500	--	500
1,2-Dichlorobenzene	ND		ug/l	500	--	500
1,3-Dichlorobenzene	ND		ug/l	500	--	500
1,4-Dichlorobenzene	ND		ug/l	500	--	500
Methyl tert butyl ether	ND		ug/l	1000	--	500
p/m-Xylene	ND		ug/l	1000	--	500
o-Xylene	ND		ug/l	500	--	500
Xylenes, Total	ND		ug/l	500	--	500
cis-1,2-Dichloroethene	ND		ug/l	500	--	500
1,2-Dichloroethene, Total	ND		ug/l	500	--	500
Dibromomethane	ND		ug/l	1000	--	500
1,2,3-Trichloropropane	ND		ug/l	1000	--	500
Styrene	ND		ug/l	500	--	500
Dichlorodifluoromethane	ND		ug/l	1000	--	500
Acetone	ND		ug/l	2500	--	500
Carbon disulfide	ND		ug/l	1000	--	500
Methyl ethyl ketone	ND		ug/l	2500	--	500
Methyl isobutyl ketone	ND		ug/l	2500	--	500
2-Hexanone	ND		ug/l	2500	--	500
Bromochloromethane	ND		ug/l	1000	--	500
Tetrahydrofuran	ND		ug/l	1000	--	500
2,2-Dichloropropane	ND		ug/l	1000	--	500
1,2-Dibromoethane	ND		ug/l	1000	--	500
1,3-Dichloropropane	ND		ug/l	1000	--	500
1,1,1,2-Tetrachloroethane	ND		ug/l	500	--	500
Bromobenzene	ND		ug/l	1000	--	500
n-Butylbenzene	ND		ug/l	1000	--	500
sec-Butylbenzene	ND		ug/l	1000	--	500
tert-Butylbenzene	ND		ug/l	1000	--	500
o-Chlorotoluene	ND		ug/l	1000	--	500
p-Chlorotoluene	ND		ug/l	1000	--	500
1,2-Dibromo-3-chloropropane	ND		ug/l	1000	--	500
Hexachlorobutadiene	ND		ug/l	300	--	500
Isopropylbenzene	ND		ug/l	1000	--	500
p-Isopropyltoluene	ND		ug/l	1000	--	500
Naphthalene	ND		ug/l	1000	--	500
n-Propylbenzene	ND		ug/l	1000	--	500

Project Name: 50 TUFTS STREET
Lab Number: L2570871
Project Number: 045163
Report Date: 11/14/25

SAMPLE RESULTS

Lab ID: L2570871-01 D
Client ID: 045163-MW404-DRUM
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/06/25 09:30
Date Received: 11/07/25
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/l	1000	--	500
1,2,4-Trichlorobenzene	ND		ug/l	1000	--	500
1,3,5-Trimethylbenzene	ND		ug/l	1000	--	500
1,2,4-Trimethylbenzene	ND		ug/l	1000	--	500
Diethyl ether	ND		ug/l	1000	--	500
Diisopropyl Ether	ND		ug/l	1000	--	500
Ethyl-Tert-Butyl-Ether	ND		ug/l	1000	--	500
Tertiary-Amyl Methyl Ether	ND		ug/l	1000	--	500
1,4-Dioxane	ND		ug/l	120000	--	500

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	109		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570871
Report Date: 11/14/25

SAMPLE RESULTS

Lab ID: L2570871-02 D
Client ID: 045163-MW403-DRUM
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/06/25 09:40
Date Received: 11/07/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/10/25 13:46
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	200	--	100
1,1-Dichloroethane	160		ug/l	100	--	100
Chloroform	ND		ug/l	100	--	100
Carbon tetrachloride	ND		ug/l	100	--	100
1,2-Dichloropropane	ND		ug/l	100	--	100
Dibromochloromethane	ND		ug/l	100	--	100
1,1,2-Trichloroethane	ND		ug/l	100	--	100
Tetrachloroethene	9600		ug/l	100	--	100
Chlorobenzene	ND		ug/l	100	--	100
Trichlorofluoromethane	ND		ug/l	200	--	100
1,2-Dichloroethane	ND		ug/l	100	--	100
1,1,1-Trichloroethane	ND		ug/l	100	--	100
Bromodichloromethane	ND		ug/l	100	--	100
trans-1,3-Dichloropropene	ND		ug/l	40	--	100
cis-1,3-Dichloropropene	ND		ug/l	40	--	100
1,3-Dichloropropene, Total	ND		ug/l	40	--	100
1,1-Dichloropropene	ND		ug/l	200	--	100
Bromoform	ND		ug/l	200	--	100
1,1,2,2-Tetrachloroethane	ND		ug/l	100	--	100
Benzene	ND		ug/l	50	--	100
Toluene	ND		ug/l	100	--	100
Ethylbenzene	ND		ug/l	100	--	100
Chloromethane	ND		ug/l	200	--	100
Bromomethane	ND		ug/l	200	--	100
Vinyl chloride	ND		ug/l	100	--	100
Chloroethane	ND		ug/l	200	--	100
1,1-Dichloroethene	ND		ug/l	100	--	100
trans-1,2-Dichloroethene	ND		ug/l	100	--	100

Project Name: 50 TUFTS STREET **Lab Number:** L2570871

Project Number: 045163 **Report Date:** 11/14/25

SAMPLE RESULTS

Lab ID: L2570871-02 D Date Collected: 11/06/25 09:40

Client ID: 045163-MW403-DRUM Date Received: 11/07/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Trichloroethene	460		ug/l	100	--	100
1,2-Dichlorobenzene	ND		ug/l	100	--	100
1,3-Dichlorobenzene	ND		ug/l	100	--	100
1,4-Dichlorobenzene	ND		ug/l	100	--	100
Methyl tert butyl ether	ND		ug/l	200	--	100
p/m-Xylene	ND		ug/l	200	--	100
o-Xylene	ND		ug/l	100	--	100
Xylenes, Total	ND		ug/l	100	--	100
cis-1,2-Dichloroethene	ND		ug/l	100	--	100
1,2-Dichloroethene, Total	ND		ug/l	100	--	100
Dibromomethane	ND		ug/l	200	--	100
1,2,3-Trichloropropane	ND		ug/l	200	--	100
Styrene	ND		ug/l	100	--	100
Dichlorodifluoromethane	ND		ug/l	200	--	100
Acetone	ND		ug/l	500	--	100
Carbon disulfide	ND		ug/l	200	--	100
Methyl ethyl ketone	ND		ug/l	500	--	100
Methyl isobutyl ketone	ND		ug/l	500	--	100
2-Hexanone	ND		ug/l	500	--	100
Bromochloromethane	ND		ug/l	200	--	100
Tetrahydrofuran	ND		ug/l	200	--	100
2,2-Dichloropropane	ND		ug/l	200	--	100
1,2-Dibromoethane	ND		ug/l	200	--	100
1,3-Dichloropropane	ND		ug/l	200	--	100
1,1,1,2-Tetrachloroethane	ND		ug/l	100	--	100
Bromobenzene	ND		ug/l	200	--	100
n-Butylbenzene	ND		ug/l	200	--	100
sec-Butylbenzene	ND		ug/l	200	--	100
tert-Butylbenzene	ND		ug/l	200	--	100
o-Chlorotoluene	ND		ug/l	200	--	100
p-Chlorotoluene	ND		ug/l	200	--	100
1,2-Dibromo-3-chloropropane	ND		ug/l	200	--	100
Hexachlorobutadiene	ND		ug/l	60	--	100
Isopropylbenzene	ND		ug/l	200	--	100
p-Isopropyltoluene	ND		ug/l	200	--	100
Naphthalene	ND		ug/l	200	--	100
n-Propylbenzene	ND		ug/l	200	--	100

Project Name: 50 TUFTS STREET **Lab Number:** L2570871

Project Number: 045163 **Report Date:** 11/14/25

SAMPLE RESULTS

Lab ID: L2570871-02 D Date Collected: 11/06/25 09:40

Client ID: 045163-MW403-DRUM Date Received: 11/07/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/l	200	--	100
1,2,4-Trichlorobenzene	ND		ug/l	200	--	100
1,3,5-Trimethylbenzene	ND		ug/l	200	--	100
1,2,4-Trimethylbenzene	ND		ug/l	200	--	100
Diethyl ether	ND		ug/l	200	--	100
Diisopropyl Ether	ND		ug/l	200	--	100
Ethyl-Tert-Butyl-Ether	ND		ug/l	200	--	100
Tertiary-Amyl Methyl Ether	ND		ug/l	200	--	100
1,4-Dioxane	ND		ug/l	25000	--	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	103		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570871
Report Date: 11/14/25

SAMPLE RESULTS

Lab ID: L2570871-03 D
Client ID: 045163-MW401-DRUM
Sample Location: SOMERVILLE, MASSACHUSETTS
Date Collected: 11/06/25 10:00
Date Received: 11/07/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/10/25 14:13
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	100	--	50
1,1-Dichloroethane	170		ug/l	50	--	50
Chloroform	ND		ug/l	50	--	50
Carbon tetrachloride	ND		ug/l	50	--	50
1,2-Dichloropropane	ND		ug/l	50	--	50
Dibromochloromethane	ND		ug/l	50	--	50
1,1,2-Trichloroethane	ND		ug/l	50	--	50
Tetrachloroethene	4100		ug/l	50	--	50
Chlorobenzene	ND		ug/l	50	--	50
Trichlorofluoromethane	ND		ug/l	100	--	50
1,2-Dichloroethane	ND		ug/l	50	--	50
1,1,1-Trichloroethane	ND		ug/l	50	--	50
Bromodichloromethane	ND		ug/l	50	--	50
trans-1,3-Dichloropropene	ND		ug/l	20	--	50
cis-1,3-Dichloropropene	ND		ug/l	20	--	50
1,3-Dichloropropene, Total	ND		ug/l	20	--	50
1,1-Dichloropropene	ND		ug/l	100	--	50
Bromoform	ND		ug/l	100	--	50
1,1,2,2-Tetrachloroethane	ND		ug/l	50	--	50
Benzene	ND		ug/l	25	--	50
Toluene	ND		ug/l	50	--	50
Ethylbenzene	ND		ug/l	50	--	50
Chloromethane	ND		ug/l	100	--	50
Bromomethane	ND		ug/l	100	--	50
Vinyl chloride	ND		ug/l	50	--	50
Chloroethane	ND		ug/l	100	--	50
1,1-Dichloroethene	ND		ug/l	50	--	50
trans-1,2-Dichloroethene	ND		ug/l	50	--	50

Project Name: 50 TUFTS STREET **Lab Number:** L2570871

Project Number: 045163 **Report Date:** 11/14/25

SAMPLE RESULTS

Lab ID: L2570871-03 D Date Collected: 11/06/25 10:00

Client ID: 045163-MW401-DRUM Date Received: 11/07/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Trichloroethene	780		ug/l	50	--	50
1,2-Dichlorobenzene	ND		ug/l	50	--	50
1,3-Dichlorobenzene	ND		ug/l	50	--	50
1,4-Dichlorobenzene	ND		ug/l	50	--	50
Methyl tert butyl ether	ND		ug/l	100	--	50
p/m-Xylene	ND		ug/l	100	--	50
o-Xylene	ND		ug/l	50	--	50
Xylenes, Total	ND		ug/l	50	--	50
cis-1,2-Dichloroethene	170		ug/l	50	--	50
1,2-Dichloroethene, Total	170		ug/l	50	--	50
Dibromomethane	ND		ug/l	100	--	50
1,2,3-Trichloropropane	ND		ug/l	100	--	50
Styrene	ND		ug/l	50	--	50
Dichlorodifluoromethane	ND		ug/l	100	--	50
Acetone	ND		ug/l	250	--	50
Carbon disulfide	ND		ug/l	100	--	50
Methyl ethyl ketone	ND		ug/l	250	--	50
Methyl isobutyl ketone	ND		ug/l	250	--	50
2-Hexanone	ND		ug/l	250	--	50
Bromochloromethane	ND		ug/l	100	--	50
Tetrahydrofuran	ND		ug/l	100	--	50
2,2-Dichloropropane	ND		ug/l	100	--	50
1,2-Dibromoethane	ND		ug/l	100	--	50
1,3-Dichloropropane	ND		ug/l	100	--	50
1,1,1,2-Tetrachloroethane	ND		ug/l	50	--	50
Bromobenzene	ND		ug/l	100	--	50
n-Butylbenzene	ND		ug/l	100	--	50
sec-Butylbenzene	ND		ug/l	100	--	50
tert-Butylbenzene	ND		ug/l	100	--	50
o-Chlorotoluene	ND		ug/l	100	--	50
p-Chlorotoluene	ND		ug/l	100	--	50
1,2-Dibromo-3-chloropropane	ND		ug/l	100	--	50
Hexachlorobutadiene	ND		ug/l	30	--	50
Isopropylbenzene	ND		ug/l	100	--	50
p-Isopropyltoluene	ND		ug/l	100	--	50
Naphthalene	ND		ug/l	100	--	50
n-Propylbenzene	ND		ug/l	100	--	50

Project Name: 50 TUFTS STREET **Lab Number:** L2570871

Project Number: 045163 **Report Date:** 11/14/25

SAMPLE RESULTS

Lab ID: L2570871-03 D Date Collected: 11/06/25 10:00

Client ID: 045163-MW401-DRUM Date Received: 11/07/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/l	100	--	50
1,2,4-Trichlorobenzene	ND		ug/l	100	--	50
1,3,5-Trimethylbenzene	ND		ug/l	100	--	50
1,2,4-Trimethylbenzene	ND		ug/l	100	--	50
Diethyl ether	ND		ug/l	100	--	50
Diisopropyl Ether	ND		ug/l	100	--	50
Ethyl-Tert-Butyl-Ether	ND		ug/l	100	--	50
Tertiary-Amyl Methyl Ether	ND		ug/l	100	--	50
1,4-Dioxane	ND		ug/l	12000	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	99		70-130

Project Name: 50 TUFTS STREET **Lab Number:** L2570871

Project Number: 045163 **Report Date:** 11/14/25

SAMPLE RESULTS

Lab ID: L2570871-04 D
Client ID: 045163-MW402-DRUM
Sample Location: SOMERVILLE, MASSACHUSETTS

Date Collected: 11/06/25 10:20
Date Received: 11/07/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 141,8260D
Analytical Date: 11/11/25 10:46
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	--	2.5
1,1-Dichloroethane	6.9		ug/l	2.5	--	2.5
Chloroform	ND		ug/l	2.5	--	2.5
Carbon tetrachloride	ND		ug/l	2.5	--	2.5
1,2-Dichloropropane	ND		ug/l	2.5	--	2.5
Dibromochloromethane	ND		ug/l	2.5	--	2.5
1,1,2-Trichloroethane	ND		ug/l	2.5	--	2.5
Tetrachloroethene	370		ug/l	2.5	--	2.5
Chlorobenzene	ND		ug/l	2.5	--	2.5
Trichlorofluoromethane	ND		ug/l	5.0	--	2.5
1,2-Dichloroethane	ND		ug/l	2.5	--	2.5
1,1,1-Trichloroethane	ND		ug/l	2.5	--	2.5
Bromodichloromethane	ND		ug/l	2.5	--	2.5
trans-1,3-Dichloropropene	ND		ug/l	1.0	--	2.5
cis-1,3-Dichloropropene	ND		ug/l	1.0	--	2.5
1,3-Dichloropropene, Total	ND		ug/l	1.0	--	2.5
1,1-Dichloropropene	ND		ug/l	5.0	--	2.5
Bromoform	ND		ug/l	5.0	--	2.5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	--	2.5
Benzene	ND		ug/l	1.2	--	2.5
Toluene	ND		ug/l	2.5	--	2.5
Ethylbenzene	ND		ug/l	2.5	--	2.5
Chloromethane	ND		ug/l	5.0	--	2.5
Bromomethane	ND		ug/l	5.0	--	2.5
Vinyl chloride	ND		ug/l	2.5	--	2.5
Chloroethane	ND		ug/l	5.0	--	2.5
1,1-Dichloroethene	ND		ug/l	2.5	--	2.5
trans-1,2-Dichloroethene	ND		ug/l	2.5	--	2.5

Project Name: 50 TUFTS STREET **Lab Number:** L2570871

Project Number: 045163 **Report Date:** 11/14/25

SAMPLE RESULTS

Lab ID: L2570871-04 D Date Collected: 11/06/25 10:20

Client ID: 045163-MW402-DRUM Date Received: 11/07/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Trichloroethene	25		ug/l	2.5	--	2.5
1,2-Dichlorobenzene	ND		ug/l	2.5	--	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5	--	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5	--	2.5
Methyl tert butyl ether	ND		ug/l	5.0	--	2.5
p/m-Xylene	ND		ug/l	5.0	--	2.5
o-Xylene	ND		ug/l	2.5	--	2.5
Xylenes, Total	ND		ug/l	2.5	--	2.5
cis-1,2-Dichloroethene	2.5		ug/l	2.5	--	2.5
1,2-Dichloroethene, Total	2.5		ug/l	2.5	--	2.5
Dibromomethane	ND		ug/l	5.0	--	2.5
1,2,3-Trichloropropane	ND		ug/l	5.0	--	2.5
Styrene	ND		ug/l	2.5	--	2.5
Dichlorodifluoromethane	ND		ug/l	5.0	--	2.5
Acetone	ND		ug/l	12	--	2.5
Carbon disulfide	ND		ug/l	5.0	--	2.5
Methyl ethyl ketone	ND		ug/l	12	--	2.5
Methyl isobutyl ketone	ND		ug/l	12	--	2.5
2-Hexanone	ND		ug/l	12	--	2.5
Bromochloromethane	ND		ug/l	5.0	--	2.5
Tetrahydrofuran	ND		ug/l	5.0	--	2.5
2,2-Dichloropropane	ND		ug/l	5.0	--	2.5
1,2-Dibromoethane	ND		ug/l	5.0	--	2.5
1,3-Dichloropropane	ND		ug/l	5.0	--	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	--	2.5
Bromobenzene	ND		ug/l	5.0	--	2.5
n-Butylbenzene	ND		ug/l	5.0	--	2.5
sec-Butylbenzene	ND		ug/l	5.0	--	2.5
tert-Butylbenzene	ND		ug/l	5.0	--	2.5
o-Chlorotoluene	ND		ug/l	5.0	--	2.5
p-Chlorotoluene	ND		ug/l	5.0	--	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	--	2.5
Hexachlorobutadiene	ND		ug/l	1.5	--	2.5
Isopropylbenzene	ND		ug/l	5.0	--	2.5
p-Isopropyltoluene	ND		ug/l	5.0	--	2.5
Naphthalene	ND		ug/l	5.0	--	2.5
n-Propylbenzene	ND		ug/l	5.0	--	2.5

Project Name: 50 TUFTS STREET **Lab Number:** L2570871

Project Number: 045163 **Report Date:** 11/14/25

SAMPLE RESULTS

Lab ID: L2570871-04 D Date Collected: 11/06/25 10:20

Client ID: 045163-MW402-DRUM Date Received: 11/07/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/l	5.0	--	2.5
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	2.5
1,3,5-Trimethylbenzene	ND		ug/l	5.0	--	2.5
1,2,4-Trimethylbenzene	ND		ug/l	5.0	--	2.5
Diethyl ether	ND		ug/l	5.0	--	2.5
Diisopropyl Ether	ND		ug/l	5.0	--	2.5
Ethyl-Tert-Butyl-Ether	ND		ug/l	5.0	--	2.5
Tertiary-Amyl Methyl Ether	ND		ug/l	5.0	--	2.5
1,4-Dioxane	ND		ug/l	620	--	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	107		70-130

Project Name: 50 TUFTS STREET **Lab Number:** L2570871

Project Number: 045163 **Report Date:** 11/14/25

SAMPLE RESULTS

Lab ID: L2570871-05 Date Collected: 11/04/25 00:00

Client ID: TRIP BLANK Date Received: 11/07/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 141,8260D

Analytical Date: 11/11/25 10:00

Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.40	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.40	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.40	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2570871

Project Number: 045163 **Report Date:** 11/14/25

SAMPLE RESULTS

Lab ID: L2570871-05 Date Collected: 11/04/25 00:00

Client ID: TRIP BLANK Date Received: 11/07/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylenes, Total	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene, Total	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
Methyl ethyl ketone	ND		ug/l	5.0	--	1
Methyl isobutyl ketone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1

Project Name: 50 TUFTS STREET **Lab Number:** L2570871

Project Number: 045163 **Report Date:** 11/14/25

SAMPLE RESULTS

Lab ID: L2570871-05 Date Collected: 11/04/25 00:00

Client ID: TRIP BLANK Date Received: 11/07/25

Sample Location: SOMERVILLE, MASSACHUSETTS Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Diethyl ether	ND		ug/l	2.0	--	1
Diisopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	115		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570871
Report Date: 11/14/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/10/25 04:57
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 02-03 Batch: WG2139865-5					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.40	--
cis-1,3-Dichloropropene	ND		ug/l	0.40	--
1,3-Dichloropropene, Total	ND		ug/l	0.40	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570871
Report Date: 11/14/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/10/25 04:57
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 02-03 Batch: WG2139865-5					
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
Xylenes, Total	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
1,2-Dichloroethene, Total	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
Methyl ethyl ketone	ND		ug/l	5.0	--
Methyl isobutyl ketone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570871
Report Date: 11/14/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/10/25 04:57
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 02-03 Batch: WG2139865-5					
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Diethyl ether	ND		ug/l	2.0	--
Diisopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570871
Report Date: 11/14/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/10/25 04:57
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 02-03 Batch: WG2139865-5					
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	110		70-130

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570871
Report Date: 11/14/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/11/25 07:19
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01,04-05 Batch: WG2140610-5					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.40	--
cis-1,3-Dichloropropene	ND		ug/l	0.40	--
1,3-Dichloropropene, Total	ND		ug/l	0.40	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570871
Report Date: 11/14/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/11/25 07:19
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01,04-05 Batch: WG2140610-5					
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
Xylenes, Total	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
1,2-Dichloroethene, Total	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
Methyl ethyl ketone	ND		ug/l	5.0	--
Methyl isobutyl ketone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570871
Report Date: 11/14/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/11/25 07:19
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01,04-05 Batch: WG2140610-5					
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Diethyl ether	ND		ug/l	2.0	--
Diisopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570871
Report Date: 11/14/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 11/11/25 07:19
Analyst: MCM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01,04-05 Batch: WG2140610-5					
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	110		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570871
Report Date: 11/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab	Associated sample(s): 02-03		Batch: WG2139865-3 WG2139865-4					
Methylene chloride	96		96		70-130	0		20
1,1-Dichloroethane	94		92		70-130	2		20
Chloroform	89		91		70-130	2		20
Carbon tetrachloride	96		93		70-130	3		20
1,2-Dichloropropane	93		97		70-130	4		20
Dibromochloromethane	95		92		70-130	3		20
1,1,2-Trichloroethane	90		89		70-130	1		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	94		94		70-130	0		20
Trichlorofluoromethane	100		100		70-130	0		20
1,2-Dichloroethane	94		89		70-130	5		20
1,1,1-Trichloroethane	98		95		70-130	3		20
Bromodichloromethane	98		99		70-130	1		20
trans-1,3-Dichloropropene	87		85		70-130	2		20
cis-1,3-Dichloropropene	88		89		70-130	1		20
1,1-Dichloropropene	92		90		70-130	2		20
Bromoform	76		78		70-130	3		20
1,1,2,2-Tetrachloroethane	78		76		70-130	3		20
Benzene	94		92		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570871
Report Date: 11/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab	Associated sample(s): 02-03		Batch: WG2139865-3 WG2139865-4					
Toluene	91		90		70-130	1		20
Ethylbenzene	92		91		70-130	1		20
Chloromethane	93		88		70-130	6		20
Bromomethane	90		100		70-130	11		20
Vinyl chloride	110		110		70-130	0		20
Chloroethane	99		98		70-130	1		20
1,1-Dichloroethene	99		99		70-130	0		20
trans-1,2-Dichloroethene	96		92		70-130	4		20
Trichloroethene	94		91		70-130	3		20
1,2-Dichlorobenzene	94		100		70-130	6		20
1,3-Dichlorobenzene	92		100		70-130	8		20
1,4-Dichlorobenzene	92		97		70-130	5		20
Methyl tert butyl ether	88		86		70-130	2		20
p/m-Xylene	95		90		70-130	5		20
o-Xylene	90		90		70-130	0		20
cis-1,2-Dichloroethene	92		92		70-130	0		20
Dibromomethane	88		90		70-130	2		20
1,2,3-Trichloropropane	79		92		70-130	15		20
Styrene	90		90		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570871
Report Date: 11/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab	Associated sample(s): 02-03		Batch: WG2139865-3 WG2139865-4					
Dichlorodifluoromethane	100		100		70-130	0		20
Acetone	110		100		70-130	10		20
Carbon disulfide	97		96		70-130	1		20
Methyl ethyl ketone	87		85		70-130	2		20
Methyl isobutyl ketone	81		80		70-130	1		20
2-Hexanone	77		76		70-130	1		20
Bromochloromethane	98		100		70-130	2		20
Tetrahydrofuran	85		81		70-130	5		20
2,2-Dichloropropane	95		94		70-130	1		20
1,2-Dibromoethane	88		90		70-130	2		20
1,3-Dichloropropane	90		87		70-130	3		20
1,1,1,2-Tetrachloroethane	90		89		70-130	1		20
Bromobenzene	86		88		70-130	2		20
n-Butylbenzene	92		100		70-130	8		20
sec-Butylbenzene	96		98		70-130	2		20
tert-Butylbenzene	93		97		70-130	4		20
o-Chlorotoluene	80		90		70-130	12		20
p-Chlorotoluene	80		95		70-130	17		20
1,2-Dibromo-3-chloropropane	88		91		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570871
Report Date: 11/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02-03 Batch: WG2139865-3 WG2139865-4								
Hexachlorobutadiene	100		93		70-130	7		20
Isopropylbenzene	81		82		70-130	1		20
p-Isopropyltoluene	94		99		70-130	5		20
Naphthalene	96		82		70-130	16		20
n-Propylbenzene	80		81		70-130	1		20
1,2,3-Trichlorobenzene	100		87		70-130	14		20
1,2,4-Trichlorobenzene	98		88		70-130	11		20
1,3,5-Trimethylbenzene	81		93		70-130	14		20
1,2,4-Trimethylbenzene	95		94		70-130	1		20
Diethyl ether	88		84		70-130	5		20
Diisopropyl Ether	85		83		70-130	2		20
Ethyl-Tert-Butyl-Ether	84		83		70-130	1		20
Tertiary-Amyl Methyl Ether	88		86		70-130	2		20
1,4-Dioxane	120		104		70-130	14		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570871
Report Date: 11/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab	Associated sample(s): 02-03		Batch: WG2139865-3 WG2139865-4					

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		92		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	84		88		70-130
Dibromofluoromethane	98		102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570871
Report Date: 11/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab	Associated sample(s): 01,04-05		Batch: WG2140610-3 WG2140610-4					
Methylene chloride	88		88		70-130	0		20
1,1-Dichloroethane	94		94		70-130	0		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	100		100		70-130	0		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	100		100		70-130	0		20
1,1,2-Trichloroethane	99		98		70-130	1		20
Tetrachloroethene	110		100		70-130	10		20
Chlorobenzene	110		100		70-130	10		20
Trichlorofluoromethane	83		80		70-130	4		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	100		100		70-130	0		20
Bromodichloromethane	100		100		70-130	0		20
trans-1,3-Dichloropropene	92		90		70-130	2		20
cis-1,3-Dichloropropene	96		96		70-130	0		20
1,1-Dichloropropene	99		96		70-130	3		20
Bromoform	87		91		70-130	4		20
1,1,2,2-Tetrachloroethane	97		98		70-130	1		20
Benzene	100		97		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570871
Report Date: 11/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab	Associated sample(s): 01,04-05 Batch: WG2140610-3 WG2140610-4							
Toluene	110		100		70-130	10		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	98		92		70-130	6		20
Bromomethane	**69**	Q	72		70-130	4		20
Vinyl chloride	88		84		70-130	5		20
Chloroethane	92		87		70-130	6		20
1,1-Dichloroethene	90		87		70-130	3		20
trans-1,2-Dichloroethene	100		96		70-130	4		20
Trichloroethene	100		98		70-130	2		20
1,2-Dichlorobenzene	110		110		70-130	0		20
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	110		110		70-130	0		20
Methyl tert butyl ether	79		82		70-130	4		20
p/m-Xylene	105		100		70-130	5		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	110		100		70-130	10		20
Dibromomethane	99		100		70-130	1		20
1,2,3-Trichloropropane	100		100		70-130	0		20
Styrene	100		100		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570871
Report Date: 11/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,04-05 Batch: WG2140610-3 WG2140610-4								
Dichlorodifluoromethane	76		72		70-130	5		20
Acetone	120		120		70-130	0		20
Carbon disulfide	80		72		70-130	11		20
Methyl ethyl ketone	110		130		70-130	17		20
Methyl isobutyl ketone	96		98		70-130	2		20
2-Hexanone	94		98		70-130	4		20
Bromochloromethane	120		120		70-130	0		20
Tetrahydrofuran	110		120		70-130	9		20
2,2-Dichloropropane	99		93		70-130	6		20
1,2-Dibromoethane	95		98		70-130	3		20
1,3-Dichloropropane	99		100		70-130	1		20
1,1,1,2-Tetrachloroethane	100		100		70-130	0		20
Bromobenzene	110		100		70-130	10		20
n-Butylbenzene	120		110		70-130	9		20
sec-Butylbenzene	110		100		70-130	10		20
tert-Butylbenzene	110		100		70-130	10		20
o-Chlorotoluene	100		100		70-130	0		20
p-Chlorotoluene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	94		100		70-130	6		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570871
Report Date: 11/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,04-05 Batch: WG2140610-3 WG2140610-4								
Hexachlorobutadiene	110		110		70-130	0		20
Isopropylbenzene	100		97		70-130	3		20
p-Isopropyltoluene	110		100		70-130	10		20
Naphthalene	100		100		70-130	0		20
n-Propylbenzene	100		100		70-130	0		20
1,2,3-Trichlorobenzene	110		110		70-130	0		20
1,2,4-Trichlorobenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene	100		98		70-130	2		20
1,2,4-Trimethylbenzene	100		98		70-130	2		20
Diethyl ether	86		85		70-130	1		20
Diisopropyl Ether	110		110		70-130	0		20
Ethyl-Tert-Butyl-Ether	100		84		70-130	17		20
Tertiary-Amyl Methyl Ether	85		85		70-130	0		20
1,4-Dioxane	112		110		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570871
Report Date: 11/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab	Associated sample(s): 01,04-05		Batch: WG2140610-3 WG2140610-4					

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		105		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	89		88		70-130
Dibromofluoromethane	103		105		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570871
Report Date: 11/14/25

SAMPLE RESULTS

Lab ID: L2570871-01
Client ID: 045163-MW404-DRUM
Sample Location: SOMERVILLE, MASSACHUSETTS

Date Collected: 11/06/25 09:30
Date Received: 11/07/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Flash Point	>150		deg F	70	NA	1	-	11/14/25 11:40	1,1010A	MRM

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570871
Report Date: 11/14/25

SAMPLE RESULTS

Lab ID: L2570871-02
Client ID: 045163-MW403-DRUM
Sample Location: SOMERVILLE, MASSACHUSETTS

Date Collected: 11/06/25 09:40
Date Received: 11/07/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Flash Point	>150		deg F	70	NA	1	-	11/14/25 11:40	1,1010A	MRM

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570871
Report Date: 11/14/25

SAMPLE RESULTS

Lab ID: L2570871-03
Client ID: 045163-MW401-DRUM
Sample Location: SOMERVILLE, MASSACHUSETTS
Sample Depth:
Matrix: Water

Date Collected: 11/06/25 10:00
Date Received: 11/07/25
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Flash Point	>150		deg F	70	NA	1	-	11/14/25 11:40	1,1010A	MRM

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570871
Report Date: 11/14/25

SAMPLE RESULTS

Lab ID: L2570871-04
Client ID: 045163-MW402-DRUM
Sample Location: SOMERVILLE, MASSACHUSETTS

Date Collected: 11/06/25 10:20
Date Received: 11/07/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Flash Point	>150		deg F	70	NA	1	-	11/14/25 11:40	1,1010A	MRM

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570871
Report Date: 11/14/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG2141763-1								
Flash Point	101		-		96-104	-		

Project Name: 50 TUFTS STREET
Project Number: 045163

Lab Number: L2570871
Report Date: 11/14/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2570871-01A	Vial HCl preserved	NA	NA			Y	Absent		MCP-8260-21(14)
L2570871-01B	Vial HCl preserved	NA	NA			Y	Absent		MCP-8260-21(14)
L2570871-01C	Vial HCl preserved	NA	NA			Y	Absent		MCP-8260-21(14)
L2570871-01D	Amber 500ml unpreserved	NA	NA			Y	Absent		FLASH()
L2570871-02A	Vial HCl preserved	NA	NA			Y	Absent		MCP-8260-21(14)
L2570871-02B	Vial HCl preserved	NA	NA			Y	Absent		MCP-8260-21(14)
L2570871-02C	Vial HCl preserved	NA	NA			Y	Absent		MCP-8260-21(14)
L2570871-02D	Amber 500ml unpreserved	NA	NA			Y	Absent		FLASH()
L2570871-03A	Vial HCl preserved	NA	NA			Y	Absent		MCP-8260-21(14)
L2570871-03B	Vial HCl preserved	NA	NA			Y	Absent		MCP-8260-21(14)
L2570871-03C	Vial HCl preserved	NA	NA			Y	Absent		MCP-8260-21(14)
L2570871-03D	Amber 500ml unpreserved	NA	NA			Y	Absent		FLASH()
L2570871-04A	Vial HCl preserved	NA	NA			Y	Absent		MCP-8260-21(14)
L2570871-04B	Vial HCl preserved	NA	NA			Y	Absent		MCP-8260-21(14)
L2570871-04C	Vial HCl preserved	NA	NA			Y	Absent		MCP-8260-21(14)
L2570871-04D	Amber 500ml unpreserved	NA	NA			Y	Absent		FLASH()
L2570871-05A	Vial HCl preserved	NA	NA			Y	Absent		MCP-8260-21(14)
L2570871-05C	Vial HCl preserved	NA	NA			Y	Absent		MCP-8260-21(14)

*Values in parentheses indicate holding time in days

Project Name:	50 TUFTS STREET	**Lab Number:**	L2570871
Project Number:	045163	**Report Date:**	11/14/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	50 TUFTS STREET	**Lab Number:**	L2570871
Project Number:	045163	**Report Date:**	11/14/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	50 TUFTS STREET	**Lab Number:**	L2570871
Project Number:	045163	**Report Date:**	11/14/25

Data Qualifiers

ND	- Not detected at the reporting limit (RL) for the sample.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
S	- Analytical results are from modified screening analysis.
V	- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
Z	- The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report

Project Name: 50 TUFTS STREET
Project Number: 045163
Lab Number: L2570871
Report Date: 11/14/25

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

141 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA and IIB, November 2021.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY kY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
MA M-MA00030, CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

Chain-of-Custody Record

Laboratory: Pace

Laboratory Job # (Lab use only) 1057084

GEI Consultants
400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000

Project Information

Project Name: 50 Tufts Street
Project Number: 045163
Project Location: Somerville, MA
Project Manager: Chris Coner

Send Report to: cconer@geiconsultants.com
labdata@geiconsultants.com

MCP PRESUMPTIVE CERTAINTY AND MCP ANALYTICAL METHODS REQUIRED: (YES) NO

STATE AND FEDERAL REGULATORY REQUIREMENTS/REPORT LIMITS

State/Federal Program: (MA) 401WQC Other _____ NH RI CT NY ME

MA MCP Criteria are Method 1 S-1 and GW-2/GW-3. Circle if GW-1 is required.

Preservative: DI/HCl

Analysis: VOC 8260; Flashpoint

Sample Handling: Samples Field Filtered YES (NO) NA; Sampled Shipped With Ice YES (NO)

Lab Sample Number	GEI Sample ID	Collection Date	Collection Time	Matrix	No. of Bottles	Sampler(s) Initials	VOC 8260	Flashpoint	Sample Specific Remarks
1057084-01	045163-MW404-DRUM	11/6/2025	9:30	GW	4	CMG	X	X	
-02	045163-MW403-DRUM	11/6/2025	9:40	GW	4	CMG	X	X	
-03	045163-MW401-DRUM	11/6/2025	10:00	GW	4	CMG	X	X	
-04	045163-MW402-DRUM	11/6/2025	10:20	GW	4	CMG	X	X	

	Relinquished by sampler: (signature)	Date	Time	Received by: (signature)
1.	CMG	11/6/25	1219	GEI Sample Fridge
2.	GEI Sample Fridge	11/7/25	13:35	NT
3.	NT	11/7/25	13:35	11/7/25 13:35
4.		11/7/25	17:20	11/7/25 1720
5.				

Turnaround Time (Business days):

5-Day X 4-Day ____ 3-Day ____
2-Day ____ 1-Day ____ Other ____

Before submitting rush turnaround samples, you **must** notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

Sample Matrix Abbreviations: SO = Soil GW = Groundwater SW = Surface Water SD = Sediment CO = Concrete PC = Paint Chip CLK = Caulk

Method Blank Summary
Form 4
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2570871
Project Name	: 50 TUFTS STREET	**Project Number**	: 045163
Lab Sample ID	: WG2139865-5	**Lab File ID**	: J251110A04
Instrument ID	: JACK		
Matrix	: WATER	**Analysis Date**	: 11/10/25 04:57

Client Sample No.	Lab Sample ID	Analysis Date
WG2139865-3LCS	WG2139865-3	11/10/25 03:38
WG2139865-4LCSD	WG2139865-4	11/10/25 04:04
045163-MW403-DRUM	L2570871-02D	11/10/25 13:46
045163-MW401-DRUM	L2570871-03D	11/10/25 14:13

Method Blank Summary
Form 4
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2570871
Project Name	: 50 TUFTS STREET	**Project Number**	: 045163
Lab Sample ID	: WG2140610-5	**Lab File ID**	: VQ251111B05
Instrument ID	: QUIMBY		
Matrix	: WATER	**Analysis Date**	: 11/11/25 07:19

Client Sample No.	Lab Sample ID	Analysis Date
WG2140610-4LCSD	WG2140610-4	11/11/25 06:10
TRIP BLANK	L2570871-05	11/11/25 10:00
045163-MW404-DRUM	L2570871-01D	11/11/25 10:23
045163-MW402-DRUM	L2570871-04D	11/11/25 10:46

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		**Lab Number**	: L2570871	
Project Name	: 50 TUFTS STREET		**Project Number**	: 045163	
Instrument ID	: JACK		**Calibration Date**	: 11/10/25 03:38	
Lab File ID	: J251110A01		**Init. Calib. Date(s)**	: 10/31/25	10/31/25
Sample No	: WG2139865-2		**Init. Calib. Times**	: 05:28	08:33
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	94	0
Dichlorodifluoromethane	0.399	0.401	-	-0.5	20	89	0
Chloromethane	0.345	0.322	-	6.7	20	83	0
Vinyl chloride	0.361	0.395	-	-9.4	20	96	0
Bromomethane	0.212	0.19	-	10.4	20	82	0
Chloroethane	0.205	0.203	-	1	20	87	0
Trichlorofluoromethane	0.448	0.459	-	-2.5	20	93	0
Ethyl ether	0.123	0.109	-	11.4	20	89	-.01
1,1-Dichloroethene	0.248	0.245	-	1.2	20	93	0
Carbon disulfide	0.797	0.77	-	3.4	20	88	0
Freon-113	0.252	0.247	-	2	20	87	0
Acrolein	0.029	0.021	-	27.6*	20	69	0
Methylene chloride	0.269	0.259	-	3.7	20	89	0
Acetone	0.057	0.062	-	-8.8	20	116	-.01
trans-1,2-Dichloroethene	0.262	0.251	-	4.2	20	88	0
Methyl acetate	0.131	0.108	-	17.6	20	82	0
Methyl tert-butyl ether	0.657	0.579	-	11.9	20	86	0
tert-Butyl alcohol	0.015	0.014	-	6.7	20	91	0
Diisopropyl ether	0.819	0.694	-	15.3	20	82	0
1,1-Dichloroethane	0.507	0.477	-	5.9	20	90	0
Halothane	0.208	0.202	-	2.9	20	93	0
Acrylonitrile	0.065	0.059	-	9.2	20	84	0
Ethyl tert-butyl ether	0.71	0.594	-	16.3	20	84	-.01
Vinyl acetate	0.588	0.512	-	12.9	20	86	0
cis-1,2-Dichloroethene	0.294	0.271	-	7.8	20	89	0
2,2-Dichloropropane	0.445	0.424	-	4.7	20	90	0
Bromochloromethane	0.138	0.136	-	1.4	20	92	0
Cyclohexane	0.478	0.41	-	14.2	20	81	0
Chloroform	0.516	0.461	-	10.7	20	87	0
Ethyl acetate	0.212	0.17	-	19.8	20	84	0
Carbon tetrachloride	0.42	0.402	-	4.3	20	89	-.01
Tetrahydrofuran	0.085	0.072	-	15.3	20	88	0
Dibromofluoromethane	0.274	0.269	-	1.8	20	93	0
1,1,1-Trichloroethane	0.458	0.447	-	2.4	20	93	0
2-Butanone	0.081	0.07	-	13.6	20	95	0
1,1-Dichloropropene	0.367	0.336	-	8.4	20	89	0
Benzene	1.037	0.972	-	6.3	20	89	0
tert-Amyl methyl ether	0.654	0.573	-	12.4	20	88	0
1,2-Dichloroethane-d4	0.316	0.324	-	-2.5	20	93	0
1,2-Dichloroethane	0.344	0.325	-	5.5	20	91	0
Methyl cyclohexane	0.482	0.443	-	8.1	20	89	0
Trichloroethene	0.287	0.271	-	5.6	20	91	0
Dibromomethane	0.169	0.149	-	11.8	20	85	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		**Lab Number**	: L2570871	
Project Name	: 50 TUFTS STREET		**Project Number**	: 045163	
Instrument ID	: JACK		**Calibration Date**	: 11/10/25 03:38	
Lab File ID	: J251110A01		**Init. Calib. Date(s)**	: 10/31/25	10/31/25
Sample No	: WG2139865-2		**Init. Calib. Times**	: 05:28	08:33
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.207	0.193*	-	6.8	20	86	0
2-Chloroethyl vinyl ether	0.156	0.125	-	19.9	20	80	0
Bromodichloromethane	0.375	0.367	-	2.1	20	94	0
1,4-Dioxane	0.00166	0.00198*	-	-19.3	20	104	0
cis-1,3-Dichloropropene	0.417	0.368	-	11.8	20	82	0
Chlorobenzene-d5	1	1	-	0	20	92	0
Toluene-d8	1.262	1.252	-	0.8	20	94	0
Toluene	0.873	0.794	-	9	20	88	0
4-Methyl-2-pentanone	0.099	0.08	-	19.2	20	76	0
Tetrachloroethene	0.431	0.436	-	-1.2	20	95	0
trans-1,3-Dichloropropene	0.471	0.412	-	12.5	20	83	0
Ethyl methacrylate	0.374	0.32	-	14.4	20	81	0
1,1,2-Trichloroethane	0.227	0.203	-	10.6	20	86	0
Chlorodibromomethane	0.326	0.309	-	5.2	20	91	0
1,3-Dichloropropane	0.453	0.41	-	9.5	20	86	0
1,2-Dibromoethane	0.293	0.259	-	11.6	20	87	0
2-Hexanone	0.218	0.169	-	22.5*	20	75	0
Chlorobenzene	0.978	0.919	-	6	20	89	0
Ethylbenzene	1.775	1.634	-	7.9	20	88	0
1,1,1,2-Tetrachloroethane	0.358	0.321	-	10.3	20	89	-.01
p/m Xylene	0.717	0.667	-	7	20	90	0
o Xylene	0.697	0.639	-	8.3	20	88	0
Styrene	1.144	1.029	-	10.1	20	87	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	109	0
Bromoform	0.473	0.357	-	24.5*	20	87	0
Isopropylbenzene	2.935	2.39	-	18.6	20	89	0
4-Bromofluorobenzene	0.793	0.669	-	15.6	20	90	0
Bromobenzene	0.729	0.623	-	14.5	20	93	0
n-Propylbenzene	3.557	2.853	-	19.8	20	89	0
1,4-Dichlorobutane	0.843	0.62	-	26.5*	20	84	0
1,1,2,2-Tetrachloroethane	0.642	0.504	-	21.5*	20	87	0
4-Ethyltoluene	2.912	2.401	-	17.5	20	90	0
2-Chlorotoluene	2.312	1.851	-	19.9	20	90	0
1,3,5-Trimethylbenzene	2.528	2.053	-	18.8	20	90	0
1,2,3-Trichloropropane	0.513	0.404	-	21.2*	20	88	0
trans-1,4-Dichloro-2-buten	0.192	0.148	-	22.9*	20	85	0
4-Chlorotoluene	2.087	1.665	-	20.2*	20	87	0
tert-Butylbenzene	2.089	1.936	-	7.3	20	100	0
1,2,4-Trimethylbenzene	2.451	2.325	-	5.1	20	105	0
sec-Butylbenzene	3.204	3.092	-	3.5	20	107	0
p-Isopropyltoluene	2.755	2.578	-	6.4	20	103	0
1,3-Dichlorobenzene	1.464	1.344	-	8.2	20	100	0
1,4-Dichlorobenzene	1.472	1.351	-	8.2	20	102	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		**Lab Number**	: L2570871	
Project Name	: 50 TUFTS STREET		**Project Number**	: 045163	
Instrument ID	: JACK		**Calibration Date**	: 11/10/25 03:38	
Lab File ID	: J251110A01		**Init. Calib. Date(s)**	: 10/31/25	10/31/25
Sample No	: WG2139865-2		**Init. Calib. Times**	: 05:28	08:33
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.605	1.459	-	9.1	20	100	0
n-Butylbenzene	2.508	2.315	-	7.7	20	102	0
1,2-Dichlorobenzene	1.34	1.262	-	5.8	20	103	0
1,2,4,5-Tetramethylbenzene	2.364	2.092	-	11.5	20	100	0
1,2-Dibromo-3-chloropropan	0.125	0.11	-	12	20	95	0
1,3,5-Trichlorobenzene	1.073	0.963	-	10.3	20	100	0
Hexachlorobutadiene	0.436	0.452	-	-3.7	20	117	0
1,2,4-Trichlorobenzene	0.954	0.93	-	2.5	20	109	0
Naphthalene	2.123	2.028	-	4.5	20	104	0
1,2,3-Trichlorobenzene	0.862	0.858	-	0.5	20	113	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		**Lab Number**	: L2570871	
Project Name	: 50 TUFTS STREET		**Project Number**	: 045163	
Instrument ID	: QUIMBY		**Calibration Date**	: 11/11/25 05:47	
Lab File ID	: VQ251111B01		**Init. Calib. Date(s)**	: 09/12/25	09/12/25
Sample No	: WG2140610-2		**Init. Calib. Times**	: 04:33	09:24
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	89	0
Dichlorodifluoromethane	0.215	0.165	-	23.3*	20	62	0
Chloromethane	0.263	0.258	-	1.9	20	82	.01
Vinyl chloride	0.286	0.251	-	12.2	20	72	0
Bromomethane	0.175	0.12	-	31.4*	20	62	0
Chloroethane	0.181	0.167	-	7.7	20	77	0
Trichlorofluoromethane	0.362	0.302	-	16.6	20	68	0
Ethyl ether	0.133	0.114	-	14.3	20	73	0
1,1-Dichloroethene	0.19	0.171	-	10	20	77	0
Carbon disulfide	0.589	0.473	-	19.7	20	69	0
Freon-113	0.199	0.185	-	7	20	76	0
Acrolein	0.033	0.027	-	18.2	20	76	0
Methylene chloride	0.237	0.21	-	11.4	20	77	0
Acetone	0.054	0.064	-	-18.5	20	105	0
trans-1,2-Dichloroethene	0.197	0.198	-	-0.5	20	84	0
Methyl acetate	0.139	0.14	-	-0.7	20	87	0
Methyl tert-butyl ether	0.662	0.521	-	21.3*	20	67	0
tert-Butyl alcohol	0.017	0.016	-	5.9	20	78	0
Diisopropyl ether	0.971	1.083	-	-11.5	20	93	0
1,1-Dichloroethane	0.495	0.464	-	6.3	20	80	0
Halothane	0.157	0.176	-	-12.1	20	94	0
Acrylonitrile	0.074	0.077	-	-4.1	20	87	0
Ethyl tert-butyl ether	0.747	0.772	-	-3.3	20	101	0
Vinyl acetate	0.492	0.62	-	-26*	20	136	0
cis-1,2-Dichloroethene	0.182	0.2*	-	-9.9	20	95	0
2,2-Dichloropropane	0.29	0.287	-	1	20	87	0
Bromochloromethane	0.084	0.097*	-	-15.5	20	100	0
Cyclohexane	0.355	0.369	-	-3.9	20	88	0
Chloroform	0.32	0.351	-	-9.7	20	95	0
Ethyl acetate	0.141	0.157	-	-11.3	20	100	0
Carbon tetrachloride	0.248	0.255	-	-2.8	20	90	0
Tetrahydrofuran	0.051	0.057	-	-11.8	20	97	0
Dibromofluoromethane	0.25	0.259	-	-3.6	20	93	0
1,1,1-Trichloroethane	0.276	0.29	-	-5.1	20	88	0
2-Butanone	0.058	0.067	-	-15.5	20	103	0
1,1-Dichloropropene	0.235	0.233	-	0.9	20	84	0
Benzene	0.743	0.744	-	-0.1	20	86	0
tert-Amyl methyl ether	0.515	0.439	-	14.8	20	73	0
1,2-Dichloroethane-d4	0.306	0.305	-	0.3	20	87	0
1,2-Dichloroethane	0.249	0.275	-	-10.4	20	95	0
Methyl cyclohexane	0.323	0.294	-	9	20	75	0
Trichloroethene	0.189	0.198*	-	-4.8	20	90	0
Dibromomethane	0.104	0.104	-	0	20	86	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		**Lab Number**	: L2570871	
Project Name	: 50 TUFTS STREET		**Project Number**	: 045163	
Instrument ID	: QUIMBY		**Calibration Date**	: 11/11/25 05:47	
Lab File ID	: VQ251111B01		**Init. Calib. Date(s)**	: 09/12/25	09/12/25
Sample No	: WG2140610-2		**Init. Calib. Times**	: 04:33	09:24
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.206	0.226	-	-9.7	20	93	0
2-Chloroethyl vinyl ether	0.111	0.098	-	11.7	20	76	0
Bromodichloromethane	0.247	0.25*	-	-1.2	20	87	0
1,4-Dioxane	0.00111	0.00124*	-	-11.7	20	94	0
cis-1,3-Dichloropropene	0.303	0.292*	-	3.6	20	83	0
Chlorobenzene-d5	1	1	-	0	20	92	0
Toluene-d8	1.323	1.284	-	2.9	20	87	0
Toluene	0.598	0.634	-	-6	20	91	0
4-Methyl-2-pentanone	0.069	0.067	-	2.9	20	85	0
Tetrachloroethene	0.252	0.276	-	-9.5	20	93	0
trans-1,3-Dichloropropene	0.331	0.304	-	8.2	20	80	0
Ethyl methacrylate	0.271	0.216	-	20.3*	20	69	0
1,1,2-Trichloroethane	0.161	0.159*	-	1.2	20	89	0
Chlorodibromomethane	0.219	0.221	-	-0.9	20	91	0
1,3-Dichloropropane	0.338	0.333	-	1.5	20	85	0
1,2-Dibromoethane	0.193	0.183*	-	5.2	20	84	0
2-Hexanone	0.129	0.121	-	6.2	20	88	0
Chlorobenzene	0.681	0.726	-	-6.6	20	94	0
Ethylbenzene	1.178	1.246	-	-5.8	20	90	0
1,1,1,2-Tetrachloroethane	0.239	0.249	-	-4.2	20	93	0
p/m Xylene	0.484	0.51	-	-5.4	20	91	0
o Xylene	0.48	0.488	-	-1.7	20	88	0
Styrene	0.808	0.829	-	-2.6	20	91	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	95	0
Bromoform	0.245	0.214	-	12.7	20	91	0
Isopropylbenzene	2.082	2.091	-	-0.4	20	89	0
4-Bromofluorobenzene	0.877	0.779	-	11.2	20	83	0
Bromobenzene	0.489	0.525	-	-7.4	20	97	0
n-Propylbenzene	2.414	2.547	-	-5.5	20	94	0
1,4-Dichlorobutane	0.697	0.759	-	-8.9	20	103	0
1,1,2,2-Tetrachloroethane	0.405	0.392	-	3.2	20	91	0
4-Ethyltoluene	2.11	2.159	-	-2.3	20	91	0
2-Chlorotoluene	1.713	1.773	-	-3.5	20	96	0
1,3,5-Trimethylbenzene	1.778	1.835	-	-3.2	20	93	0
1,2,3-Trichloropropane	0.32	0.321	-	-0.3	20	92	0
trans-1,4-Dichloro-2-buten	0.131	0.134	-	-2.3	20	94	0
4-Chlorotoluene	1.516	1.582	-	-4.4	20	93	0
tert-Butylbenzene	1.476	1.568	-	-6.2	20	92	0
1,2,4-Trimethylbenzene	1.765	1.82	-	-3.1	20	93	0
sec-Butylbenzene	2.225	2.376	-	-6.8	20	93	0
p-Isopropyltoluene	1.892	2.048	-	-8.2	20	96	0
1,3-Dichlorobenzene	0.996	1.105	-	-10.9	20	101	0
1,4-Dichlorobenzene	1	1.121	-	-12.1	20	102	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		**Lab Number**	: L2570871	
Project Name	: 50 TUFTS STREET		**Project Number**	: 045163	
Instrument ID	: QUIMBY		**Calibration Date**	: 11/11/25 05:47	
Lab File ID	: VQ251111B01		**Init. Calib. Date(s)**	: 09/12/25	09/12/25
Sample No	: WG2140610-2		**Init. Calib. Times**	: 04:33	09:24
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.125	1.196	-	-6.3	20	96	0
n-Butylbenzene	1.628	1.879	-	-15.4	20	104	0
1,2-Dichlorobenzene	0.943	1.039	-	-10.2	20	100	0
1,2,4,5-Tetramethylbenzene	1.826	1.754	-	3.9	20	87	0
1,2-Dibromo-3-chloropropan	0.064	0.06	-	6.3	20	85	0
1,3,5-Trichlorobenzene	0.725	0.797	-	-9.9	20	102	0
Hexachlorobutadiene	0.256	0.29	-	-13.3	20	104	0
1,2,4-Trichlorobenzene	0.649	0.681	-	-4.9	20	99	0
Naphthalene	1.409	1.412	-	-0.2	20	89	0
1,2,3-Trichlorobenzene	0.582	0.641	-	-10.1	20	102	0

*** Value outside of QC limits.**

Sample Delivery Group Summary

Pace Job Number : L2570871

Account Name : GEI Consultants
Project Number : 045163
Project Name : 50 TUFTS STREET

Received : 07-NOV-2025
Reviewer : Harmony Evans

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	4.3	

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received? Following additional samples were received: -05	**YES**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**NA**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NO**

ANALYTICAL REPORT

Lab Number:	L2545026
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	TUFTS STREET
Project Number:	045163
Report Date:	07/24/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NH ELAP (2249).

120 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.pacelabs.com

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2545026
Report Date: 07/24/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2545026-01	045163-11MORT-F1	AIR	SOMERVILLE, MA	07/16/25 10:09	07/17/25
L2545026-02	045163-11MORT-B	AIR	SOMERVILLE, MA	07/16/25 10:05	07/17/25
L2545026-03	045163-11MORT-SV1	SOIL_VAPOR	SOMERVILLE, MA	07/16/25 12:58	07/17/25
L2545026-04	045163-11MORT-SV2	SOIL_VAPOR	SOMERVILLE, MA	07/16/25 12:59	07/17/25

Project Name: TUFTS STREET **Lab Number:** L2545026

Project Number: 045163 **Report Date:** 07/24/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	NO
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	TUFTS STREET	**Lab Number:**	L2545026
Project Number:	045163	**Report Date:**	07/24/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2545026
Report Date: 07/24/25

Case Narrative (continued)

MCP Related Narratives

Canisters were released from the laboratory on July 14, 2025. The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

In reference to questions E b/I:

All samples were analyzed for a subset of the MCP compounds per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 07/24/25

QC OUTLIER SUMMARY REPORT

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2545026
Report Date: 07/24/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment

There are no QC Outliers associated with this report.

AIR

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2545026
Report Date: 07/24/25

SAMPLE RESULTS

Lab ID: L2545026-01
Client ID: 045163-11MORT-F1
Sample Location: SOMERVILLE, MA

Date Collected: 07/16/25 10:09
Date Received: 07/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 07/24/25 01:09
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	0.034	0.020	--	0.135	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	1.61	0.020	--	8.65	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.022	0.020	--	0.149	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	83		60-140
bromochloromethane	84		60-140
chlorobenzene-d5	85		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2545026
Report Date: 07/24/25

SAMPLE RESULTS

Lab ID: L2545026-02
Client ID: 045163-11MORT-B
Sample Location: SOMERVILLE, MA

Date Collected: 07/16/25 10:05
Date Received: 07/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 07/24/25 01:48
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	0.034	0.020	--	0.135	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	1.28	0.020	--	6.88	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.022	0.020	--	0.149	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	86		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	86		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2545026
Report Date: 07/24/25

SAMPLE RESULTS

Lab ID: L2545026-03
Client ID: 045163-11MORT-SV1
Sample Location: SOMERVILLE, MA

Date Collected: 07/16/25 12:58
Date Received: 07/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 07/24/25 02:28
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	0.059	0.020	--	0.151	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.049	0.020	--	0.267	0.109	--		1
Trichloroethene	0.093	0.020	--	0.500	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.232	0.020	--	1.57	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	86		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	85		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2545026
Report Date: 07/24/25

SAMPLE RESULTS

Lab ID: L2545026-04
Client ID: 045163-11MORT-SV2
Sample Location: SOMERVILLE, MA

Date Collected: 07/16/25 12:59
Date Received: 07/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 07/24/25 03:08
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	0.054	0.020	--	0.138	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.025	0.020	--	0.136	0.109	--		1
Trichloroethene	0.289	0.020	--	1.55	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	3.10	0.020	--	21.0	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	87		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	85		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2545026
Report Date: 07/24/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15-SIM
Analytical Date: 07/23/25 19:10

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab for sample(s): 01-04 Batch: WG2094266-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2545026
Report Date: 07/24/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-04 Batch: WG2094266-3								
Vinyl chloride	105		-		70-130	-		
1,1-Dichloroethene	115		-		70-130	-		
trans-1,2-Dichloroethene	113		-		70-130	-		
1,1-Dichloroethane	108		-		70-130	-		
cis-1,2-Dichloroethene	108		-		70-130	-		
1,1,1-Trichloroethane	101		-		70-130	-		
Trichloroethene	105		-		70-130	-		
1,1,2-Trichloroethane	96		-		70-130	-		
Tetrachloroethene	117		-		70-130	-		
1,1,2,2-Tetrachloroethane	122		-		70-130	-		

Project Name: TUFTS STREET

Project Number: 045163

Lab Number: L2545026

Report Date: 07/24/25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2545026-01	045163-11MORT-F1	02983	Flow 5	07/14/25	528698		-	-	-	Pass	3.0	3.1	3
L2545026-01	045163-11MORT-F1	5310	6.0L Can	07/14/25	528698	L2542224-03	Pass	-29.4	-9.2	-	-	-	-
L2545026-02	045163-11MORT-B	02441	Flow 5	07/14/25	528698		-	-	-	Pass	3.0	3.2	6
L2545026-02	045163-11MORT-B	4329	6.0L Can	07/14/25	528698	L2542224-03	Pass	-29.5	-6.2	-	-	-	-
L2545026-03	045163-11MORT-SV1	01610	Flow 2	07/14/25	528698		-	-	-	Pass	36.3	39.2	8
L2545026-03	045163-11MORT-SV1	2793	2.7L Can	07/14/25	528698	L2542592-06	Pass	-29.4	-4.6	-	-	-	-
L2545026-04	045163-11MORT-SV2	01561	Flow 2	07/14/25	528698		-	-	-	Pass	36.1	37.3	3
L2545026-04	045163-11MORT-SV2	139	2.7L Can	07/14/25	528698	L2542592-06	Pass	-29.4	-6.6	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2542224
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542224-03
Client ID: CAN 5605 SHELF 46
Sample Location:

Date Collected: 07/07/25 15:00
Date Received: 07/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/08/25 18:41
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2542224
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542224-03
Client ID: CAN 5605 SHELF 46
Sample Location:

Date Collected: 07/07/25 15:00
Date Received: 07/08/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2542224
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542224-03
Client ID: CAN 5605 SHELF 46
Sample Location:

Date Collected: 07/07/25 15:00
Date Received: 07/08/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2542224
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542224-03
Client ID: CAN 5605 SHELF 46
Sample Location:

Date Collected: 07/07/25 15:00
Date Received: 07/08/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2542224
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542224-03
Client ID: CAN 5605 SHELF 46
Sample Location:

Date Collected: 07/07/25 15:00
Date Received: 07/08/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	101		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2542224
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542224-03
Client ID: CAN 5605 SHELF 46
Sample Location:

Date Collected: 07/07/25 15:00
Date Received: 07/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/08/25 18:41
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	0.073	0.050	--	0.167	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2542224
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542224-03
Client ID: CAN 5605 SHELF 46
Sample Location:

Date Collected: 07/07/25 15:00
Date Received: 07/08/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2542224
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542224-03
Client ID: CAN 5605 SHELF 46
Sample Location:

Date Collected: 07/07/25 15:00
Date Received: 07/08/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	102		60-140
chlorobenzene-d5	100		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2542592
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542592-06
Client ID: CAN 492 SHELF 9
Sample Location:

Date Collected: 07/09/25 10:00
Date Received: 07/09/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/09/25 23:49
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2542592
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542592-06
Client ID: CAN 492 SHELF 9
Sample Location:

Date Collected: 07/09/25 10:00
Date Received: 07/09/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2542592
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542592-06
Client ID: CAN 492 SHELF 9
Sample Location:

Date Collected: 07/09/25 10:00
Date Received: 07/09/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2542592
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542592-06
Client ID: CAN 492 SHELF 9
Sample Location:

Date Collected: 07/09/25 10:00
Date Received: 07/09/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2542592
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542592-06
Client ID: CAN 492 SHELF 9
Sample Location:

Date Collected: 07/09/25 10:00
Date Received: 07/09/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	87		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2542592

Project Number: CANISTER QC BAT **Report Date:** 07/24/25

Air Canister Certification Results

Lab ID: L2542592-06
Client ID: CAN 492 SHELF 9
Sample Location:

Date Collected: 07/09/25 10:00
Date Received: 07/09/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/09/25 23:49
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2542592
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542592-06
Client ID: CAN 492 SHELF 9
Sample Location:

Date Collected: 07/09/25 10:00
Date Received: 07/09/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2542592
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542592-06
Client ID: CAN 492 SHELF 9
Sample Location:

Date Collected: 07/09/25 10:00
Date Received: 07/09/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	101		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	97		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2545026
Report Date: 07/24/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2545026-01A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2545026-02A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2545026-03A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2545026-04A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name:	TUFTS STREET	**Lab Number:**	L2545026
Project Number:	045163	**Report Date:**	07/24/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2545026
Project Number:	045163	**Report Date:**	07/24/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2545026
Project Number:	045163	**Report Date:**	07/24/25

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2545026
Report Date: 07/24/25

REFERENCES

101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

Serial_No:07242516:42

AIR ANALYSIS

PAGE 1 OF 1

Pace ANALYTICAL SERVICES

CHAIN OF CUSTODY

120 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 7-17-25

Pace® Job #: L2545026

Client Information

Client: GEI Consultants
Address: 400 Unicorn Park Drive
Woburn MA 01801
Phone: 781 721 4000
Fax:
Email: labdata@geiconsultants.com
☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Tufts Street
Project Location: Somerville, MA
Project #: 0415163
Project Manager: Chris Coles
Pace® Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☒ see attached analyte list

All Columns Below Must Be Filled Out

PACE Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I.D. Can	I.D. - Flow Controller	TO-15	TO-15 SIM	APH Speciated Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
45026-01	045163-11Mont-F1	7/16/25	1009	1009	-30.27	-9.50	IA	DJM	6L	5310	02983	X					
-02	045163-11Mont-B	7/16/25	1005	1005	-30.30	-6.45	IA	DJM	6L	4529	02441	X					
-03	045163-11Mont-SV1	7/16/25	1158	1258	-30.11	-5.25	SV	DJM	2.7L	2793	01610	X					
-04	045163-11Mont-SV2	7/16/25	1159	1259	-30.09	-7.41	SV	DJM	2.7L	139	01561	X					

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambi-guities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
Daniel Mott	7/16/25 14:00	GEI Field Room	7/16/25 14:00
GEI Field Room	7/17/25 14:30	Daniel Mott	7/17/25 14:30
Daniel Mott	7/17/25 14:54		7/17/25 14:30
O/PACE	7/17/25 17:20	Jo Mendoza ASE	7/17/25 17:20

Tufts Street IA/SV Analyte List

- Vinyl chloride
- 1,1-Dichloroethene
- trans-1,2-Dichloroethane
- 1,1-Dichloroethane
- cis-1,2-Dichloroethene
- 1,1,1-Trichloroethane
- Trichloroethene
- 1,1,2-Trichloroethane
- Tetrachloroethene
- 1,1,2,2-Tetrachloroethane

Serial_No:07242516:42

Sample Delivery Group Summary

Pace Job Number : L2545026

Account Name : GEI Consultants
Project Number : 045163
Project Name : TUFTS STREET

Received : 17-JUL-2025
Reviewer : Christopher J Anderson

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Present/Intact/NA			

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**YES**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NA**

ANALYTICAL REPORT

Lab Number:	L2553156
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	TUFTS STREET
Project Number:	045163
Report Date:	08/29/25

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Certifications & Approvals: NH ELAP (2249).

120 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.pacelabs.com

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2553156
Report Date: 08/29/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2553156-01	045163-11MORT-F1	AIR	SOMERVILLE, MA	08/21/25 09:17	08/22/25
L2553156-02	045163-11MORT-B-FIN	AIR	SOMERVILLE, MA	08/21/25 09:19	08/22/25
L2553156-03	045163-11MORT-B-UNFIN	AIR	SOMERVILLE, MA	08/21/25 09:21	08/22/25
L2553156-04	045163-11MORT-SV-1	SOIL_VAPOR	SOMERVILLE, MA	08/21/25 11:51	08/22/25
L2553156-05	045163-11MORT-SV-2	SOIL_VAPOR	SOMERVILLE, MA	08/21/25 11:58	08/22/25

Project Name: TUFTS STREET **Lab Number:** L2553156

Project Number: 045163 **Report Date:** 08/29/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	NO
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	TUFTS STREET	**Lab Number:**	L2553156
Project Number:	045163	**Report Date:**	08/29/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2553156
Report Date: 08/29/25

Case Narrative (continued)

MCP Related Narratives

Canisters were released from the laboratory on August 18, 2025. The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

In reference to questions E b/I:

All samples were analyzed for a subset of the MCP compounds per the Chain of Custody.

Sample Receipt

L2553156-02: The sample has an RPD for the pre- and post-flow controller calibration check (22% RPD) outside of the control limit of 20%. The final pressure of the associated canister recorded by the laboratory was -4.9 inches of mercury. No further action was required.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 08/29/25

QC OUTLIER SUMMARY REPORT

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2553156
Report Date: 08/29/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment

There are no QC Outliers associated with this report.

AIR

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2553156
Report Date: 08/29/25

SAMPLE RESULTS

Lab ID: L2553156-01
Client ID: 045163-11MORT-F1
Sample Location: SOMERVILLE, MA

Date Collected: 08/21/25 09:17
Date Received: 08/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 08/27/25 20:55
Analyst: BJB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.184	0.020	--	0.989	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	100		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	103		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2553156
Report Date: 08/29/25

SAMPLE RESULTS

Lab ID: L2553156-02
Client ID: 045163-11MORT-B-FIN
Sample Location: SOMERVILLE, MA

Date Collected: 08/21/25 09:19
Date Received: 08/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 08/27/25 21:35
Analyst: BJB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.040	0.020	--	0.215	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	97		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	99		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2553156
Report Date: 08/29/25

SAMPLE RESULTS

Lab ID: L2553156-03
Client ID: 045163-11MORT-B-UNFIN
Sample Location: SOMERVILLE, MA

Date Collected: 08/21/25 09:21
Date Received: 08/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 08/27/25 22:16
Analyst: BJB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.023	0.020	--	0.124	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	100		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	102		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2553156
Report Date: 08/29/25

SAMPLE RESULTS

Lab ID: L2553156-04
Client ID: 045163-11MORT-SV-1
Sample Location: SOMERVILLE, MA

Date Collected: 08/21/25 11:51
Date Received: 08/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 08/29/25 04:09
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.067	0.020	--	0.366	0.109	--		1
Trichloroethene	0.023	0.020	--	0.124	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.188	0.020	--	1.27	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	97		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	124		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2553156
Report Date: 08/29/25

SAMPLE RESULTS

Lab ID: L2553156-05
Client ID: 045163-11MORT-SV-2
Sample Location: SOMERVILLE, MA

Date Collected: 08/21/25 11:58
Date Received: 08/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 08/29/25 04:48
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.047	0.020	--	0.256	0.109	--		1
Trichloroethene	0.137	0.020	--	0.736	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	2.95	0.020	--	20.0	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	98		60-140
bromochloromethane	103		60-140
chlorobenzene-d5	124		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2553156
Report Date: 08/29/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15-SIM
Analytical Date: 08/27/25 20:15

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab for sample(s): 01-03 Batch: WG2108087-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2553156
Report Date: 08/29/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15-SIM
Analytical Date: 08/28/25 18:39

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab for sample(s): 04-05 Batch: WG2108592-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2553156
Report Date: 08/29/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-03 Batch: WG2108087-3								
Vinyl chloride	92		-		70-130	-		
1,1-Dichloroethene	86		-		70-130	-		
trans-1,2-Dichloroethene	83		-		70-130	-		
1,1-Dichloroethane	83		-		70-130	-		
cis-1,2-Dichloroethene	83		-		70-130	-		
1,1,1-Trichloroethane	105		-		70-130	-		
Trichloroethene	95		-		70-130	-		
1,1,2-Trichloroethane	102		-		70-130	-		
Tetrachloroethene	95		-		70-130	-		
1,1,2,2-Tetrachloroethane	108		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2553156
Report Date: 08/29/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 04-05 Batch: WG2108592-3								
Vinyl chloride	79		-		70-130	-		
1,1-Dichloroethene	91		-		70-130	-		
trans-1,2-Dichloroethene	91		-		70-130	-		
1,1-Dichloroethane	91		-		70-130	-		
cis-1,2-Dichloroethene	88		-		70-130	-		
1,1,1-Trichloroethane	112		-		70-130	-		
Trichloroethene	112		-		70-130	-		
1,1,2-Trichloroethane	111		-		70-130	-		
Tetrachloroethene	116		-		70-130	-		
1,1,2,2-Tetrachloroethane	125		-		70-130	-		

Project Name: TUFTS STREET

Project Number: 045163

Lab Number: L2553156

Report Date: 08/29/25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2553156-01	045163-11MORT-F1	01212	Flow 5	08/18/25	532652		-	-	-	Pass	3.0	3.4	13
L2553156-01	045163-11MORT-F1	2977	6.0L Can	08/18/25	532652	L2546019-03	Pass	-29.3	-6.7	-	-	-	-
L2553156-02	045163-11MORT-B-FIN	01258	Flow 5	08/18/25	532652		-	-	-	Pass	3.2	4.0	22
L2553156-02	045163-11MORT-B-FIN	1692	6.0L Can	08/18/25	532652	L2548010-01	Pass	-29.6	-4.9	-	-	-	-
L2553156-03	045163-11MORT-B-UNFIN	02441	Flow 5	08/18/25	532652		-	-	-	Pass	3.0	3.0	0
L2553156-03	045163-11MORT-B-UNFIN	3288	6.0L Can	08/18/25	532652	L2547847-09	Pass	-29.6	-6.3	-	-	-	-
L2553156-04	045163-11MORT-SV-1	01037	Flow 2	08/18/25	532652		-	-	-	Pass	35.7	40.2	12
L2553156-04	045163-11MORT-SV-1	3441	2.7L Can	08/18/25	532652	L2549067-01	Pass	-29.6	-6.4	-	-	-	-
L2553156-05	045163-11MORT-SV-2	02094	Flow 2	08/18/25	532652		-	-	-	Pass	35.8	39.3	9
L2553156-05	045163-11MORT-SV-2	3415	2.7L Can	08/18/25	532652	L2549067-01	Pass	-29.5	-5.3	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2546019
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2546019-03
Client ID: CAN 1518 SHELF 72
Sample Location:

Date Collected: 07/22/25 15:00
Date Received: 07/23/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/23/25 20:26
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2546019
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2546019-03
Client ID: CAN 1518 SHELF 72
Sample Location:

Date Collected: 07/22/25 15:00
Date Received: 07/23/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2546019
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2546019-03
Client ID: CAN 1518 SHELF 72
Sample Location:

Date Collected: 07/22/25 15:00
Date Received: 07/23/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2546019
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2546019-03
Client ID: CAN 1518 SHELF 72
Sample Location:

Date Collected: 07/22/25 15:00
Date Received: 07/23/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2546019

Project Number: CANISTER QC BAT **Report Date:** 08/29/25

Air Canister Certification Results

Lab ID: L2546019-03
Client ID: CAN 1518 SHELF 72
Sample Location:

Date Collected: 07/22/25 15:00
Date Received: 07/23/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Acetamide, N,N-dimethyl-	3.6	NJ	ppbV		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	101		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2546019

Project Number: CANISTER QC BAT **Report Date:** 08/29/25

Air Canister Certification Results

Lab ID: L2546019-03
Client ID: CAN 1518 SHELF 72
Sample Location:

Date Collected: 07/22/25 15:00
Date Received: 07/23/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/23/25 20:26
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2546019

Project Number: CANISTER QC BAT **Report Date:** 08/29/25

Air Canister Certification Results

Lab ID: L2546019-03
Client ID: CAN 1518 SHELF 72
Sample Location:

Date Collected: 07/22/25 15:00
Date Received: 07/23/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2546019
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2546019-03
Client ID: CAN 1518 SHELF 72
Sample Location:

Date Collected: 07/22/25 15:00
Date Received: 07/23/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	103		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2547847
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2547847-09
Client ID: CAN 2291 SHELF 123
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/01/25 02:47
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2547847
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2547847-09
Client ID: CAN 2291 SHELF 123
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2547847
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2547847-09
Client ID: CAN 2291 SHELF 123
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2547847

Project Number: CANISTER QC BAT **Report Date:** 08/29/25

Air Canister Certification Results

Lab ID: L2547847-09
Client ID: CAN 2291 SHELF 123
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2547847

Project Number: CANISTER QC BAT **Report Date:** 08/29/25

Air Canister Certification Results

Lab ID: L2547847-09
Client ID: CAN 2291 SHELF 123
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	84		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2547847
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2547847-09
Client ID: CAN 2291 SHELF 123
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/01/25 02:47
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2547847

Project Number: CANISTER QC BAT **Report Date:** 08/29/25

Air Canister Certification Results

Lab ID: L2547847-09
Client ID: CAN 2291 SHELF 123
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2547847
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2547847-09
Client ID: CAN 2291 SHELF 123
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	88		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	85		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2548010
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2548010-01
Client ID: CAN 1549 SHELF 125
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/31/25 20:57
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2548010
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2548010-01
Client ID: CAN 1549 SHELF 125
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2548010
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2548010-01
Client ID: CAN 1549 SHELF 125
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2548010
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2548010-01
Client ID: CAN 1549 SHELF 125
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2548010

Project Number: CANISTER QC BAT **Report Date:** 08/29/25

Air Canister Certification Results

Lab ID: L2548010-01
Client ID: CAN 1549 SHELF 125
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	86		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2548010
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2548010-01
Client ID: CAN 1549 SHELF 125
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/31/25 20:57
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2548010
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2548010-01
Client ID: CAN 1549 SHELF 125
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2548010
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2548010-01
Client ID: CAN 1549 SHELF 125
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	89		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	87		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2549067
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2549067-01
Client ID: CAN 1727 SHELF 3
Sample Location:

Date Collected: 08/05/25 15:00
Date Received: 08/06/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/06/25 19:16
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2549067
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2549067-01
Client ID: CAN 1727 SHELF 3
Sample Location:

Date Collected: 08/05/25 15:00
Date Received: 08/06/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2549067
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2549067-01
Client ID: CAN 1727 SHELF 3
Sample Location:

Date Collected: 08/05/25 15:00
Date Received: 08/06/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2549067

Project Number: CANISTER QC BAT **Report Date:** 08/29/25

Air Canister Certification Results

Lab ID: L2549067-01
Client ID: CAN 1727 SHELF 3
Sample Location:

Date Collected: 08/05/25 15:00
Date Received: 08/06/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2549067
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2549067-01
Client ID: CAN 1727 SHELF 3
Sample Location:

Date Collected: 08/05/25 15:00
Date Received: 08/06/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		60-140
Bromochloromethane	105		60-140
chlorobenzene-d5	103		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2549067

Project Number: CANISTER QC BAT **Report Date:** 08/29/25

Air Canister Certification Results

Lab ID: L2549067-01
Client ID: CAN 1727 SHELF 3
Sample Location:

Date Collected: 08/05/25 15:00
Date Received: 08/06/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/06/25 19:16
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2549067

Project Number: CANISTER QC BAT **Report Date:** 08/29/25

Air Canister Certification Results

Lab ID: L2549067-01
Client ID: CAN 1727 SHELF 3
Sample Location:

Date Collected: 08/05/25 15:00
Date Received: 08/06/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2549067
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2549067-01
Client ID: CAN 1727 SHELF 3
Sample Location:

Date Collected: 08/05/25 15:00
Date Received: 08/06/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	96		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2553156
Report Date: 08/29/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2553156-01A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2553156-02A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2553156-03A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2553156-04A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2553156-05A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name:	TUFTS STREET	**Lab Number:**	L2553156
Project Number:	045163	**Report Date:**	08/29/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2553156
Project Number:	045163	**Report Date:**	08/29/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2553156
Project Number:	045163	**Report Date:**	08/29/25

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2553156
Report Date: 08/29/25

REFERENCES

101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY kY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
MA M-MA00030, CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

Pace ANALYTICAL SERVICES — CHAIN OF CUSTODY

120 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 8/22/25

Pace® Job #: L2553156

Client Information

Client: GEI Consultants
Address: 400 Unicorn Park Drive
Woburn, MA 01801
Phone: 781-721-4000
Fax:
Email: labdata@geiconsultants.com
☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Tufts St
Project Location: Somerville, MA
Project #: 045163
Project Manager: Chris Coner
Pace® Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker:
(Default based on Regulatory Criteria indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☒ See attached analyte list

All Columns Below Must Be Filled Out

PACE Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH Subset Non-Oxygenate HCs	Fixed Gases ☐	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
53156-01	045163-11Mort-F1	8/21/25	0917	0917	-30.54	-7.10	IA	JWG	6L	2977	01212	X					
02	045163-11Mort-B-Fin	8/21/25	0919	0919	-30.31	-5.31	IA	JWG	6L	1692	01258	X					
03	045163-11Mort-B-Unfin	8/21/25	0921	0921	-30.24	-6.76	IA	JWG	6L	3288	02411	X					
04	045163-11Mort-SV-1	8/21/25	1051	1151	-29.94	-7.02	SV	JWG	2.7L	3411	01037	X					
05	045163-11Mort-SV-2	8/21/25	1058	1158	-30.15	-6.11	SV	JWG	2.7L	3415	02094	X					

*SAMPLE MATRIX CODES: AA = Ambient Air (Indoor/Outdoor); SV = Soil Vapor/Landfill Gas/SVE; Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambi-guities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
Jillian Gruff	8/21/25 1320	GEI Field Room	8/21/25 1320
GEI Field Room	8/22/25 1220	FedEx	8/22/25 1225
FedEx	8/22/25 1230	Pace	8/22/25 12:30
Pace	8/22/25 15:16	[illegible]	8/22/25 15:17

8/22/25 1651

Tufts Street IA/SV Analyte List

- Vinyl chloride
- 1,1-Dichloroethene
- trans-1,2-Dichloroethane
- 1,1-Dichloroethane
- cis-1,2-Dichloroethene
- 1,1,1-Trichloroethane
- Trichloroethene
- 1,1,2-Trichloroethane
- Tetrachloroethene
- 1,1,2,2-Tetrachloroethane

Sample Delivery Group Summary

Pace Job Number : L2553156

Account Name : GEI Consultants
Project Number : 045163
Project Name : TUFTS STREET

Received : 22-AUG-2025
Reviewer : Christopher J Anderson

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Present/Intact/NA			

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**YES**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NA**

ANALYTICAL REPORT

Lab Number:	L2555013
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	TUFTS STREET
Project Number:	045163
Report Date:	09/05/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NH ELAP (2249).

120 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.pacelabs.com

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2555013
Report Date: 09/05/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2555013-01	045163-11MORT-F1	AIR	SOMERVILLE, MA	08/29/25 08:40	09/02/25
L2555013-02	045163-11MORT-B-FIN	AIR	SOMERVILLE, MA	08/29/25 09:05	09/02/25
L2555013-03	045163-11MORT-B-UNFIN	AIR	SOMERVILLE, MA	08/29/25 09:08	09/02/25
L2555013-04	045163-11MORT-SV-1	SOIL_VAPOR	SOMERVILLE, MA	08/29/25 10:12	09/02/25
L2555013-05	045163-11MORT-SV-2	SOIL_VAPOR	SOMERVILLE, MA	08/29/25 10:15	09/02/25

Project Name: TUFTS STREET **Lab Number:** L2555013

Project Number: 045163 **Report Date:** 09/05/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	NO
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	TUFTS STREET	**Lab Number:**	L2555013
Project Number:	045163	**Report Date:**	09/05/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	TUFTS STREET	**Lab Number:**	L2555013
Project Number:	045163	**Report Date:**	09/05/25

Case Narrative (continued)

MCP Related Narratives

Canisters were released from the laboratory on August 27, 2025. The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

In reference to questions E b/I:

All samples were analyzed for a subset of the MCP compounds per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Jennifer Jerome

Title: Technical Director/Representative Date: 09/05/25

QC OUTLIER SUMMARY REPORT

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2555013
Report Date: 09/05/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment

There are no QC Outliers associated with this report.

AIR

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2555013
Report Date: 09/05/25

SAMPLE RESULTS

Lab ID: L2555013-01
Client ID: 045163-11MORT-F1
Sample Location: SOMERVILLE, MA

Date Collected: 08/29/25 08:40
Date Received: 09/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 09/04/25 00:51
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	1.22	0.020	--	6.56	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	83		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	85		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2555013
Report Date: 09/05/25

SAMPLE RESULTS

Lab ID: L2555013-02
Client ID: 045163-11MORT-B-FIN
Sample Location: SOMERVILLE, MA

Date Collected: 08/29/25 09:05
Date Received: 09/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 09/04/25 01:33
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	0.021	0.020	--	0.083	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.765	0.020	--	4.11	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	79		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	79		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2555013
Report Date: 09/05/25

SAMPLE RESULTS

Lab ID: L2555013-03
Client ID: 045163-11MORT-B-UNFIN
Sample Location: SOMERVILLE, MA

Date Collected: 08/29/25 09:08
Date Received: 09/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 09/04/25 03:04
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.225	0.020	--	1.21	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	88		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	85		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2555013
Report Date: 09/05/25

SAMPLE RESULTS

Lab ID: L2555013-04
Client ID: 045163-11MORT-SV-1
Sample Location: SOMERVILLE, MA

Date Collected: 08/29/25 10:12
Date Received: 09/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 09/04/25 03:45
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.049	0.020	--	0.267	0.109	--		1
Trichloroethene	0.038	0.020	--	0.204	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.219	0.020	--	1.49	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	90		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	90		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2555013
Report Date: 09/05/25

SAMPLE RESULTS

Lab ID: L2555013-05
Client ID: 045163-11MORT-SV-2
Sample Location: SOMERVILLE, MA

Date Collected: 08/29/25 10:15
Date Received: 09/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 09/04/25 04:27
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.049	0.020	--	0.267	0.109	--		1
Trichloroethene	0.240	0.020	--	1.29	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	3.06	0.020	--	20.8	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	79		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	79		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2555013
Report Date: 09/05/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15-SIM
Analytical Date: 09/03/25 20:40

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab for sample(s): 01-05 Batch: WG2110380-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2555013
Report Date: 09/05/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-05 Batch: WG2110380-3								
Vinyl chloride	86		-		70-130	-		
1,1-Dichloroethene	81		-		70-130	-		
trans-1,2-Dichloroethene	80		-		70-130	-		
1,1-Dichloroethane	78		-		70-130	-		
cis-1,2-Dichloroethene	78		-		70-130	-		
1,1,1-Trichloroethane	96		-		70-130	-		
Trichloroethene	80		-		70-130	-		
1,1,2-Trichloroethane	89		-		70-130	-		
Tetrachloroethene	71		-		70-130	-		
1,1,2,2-Tetrachloroethane	85		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2555013
Report Date: 09/05/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-05 QC Batch ID: WG2110380-5 QC Sample: L2555013-02 Client ID: 045163-11MORT-B-FIN						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	0.021	0.021	ppbV	0		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Trichloroethene	0.765	0.724	ppbV	6		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Tetrachloroethene	ND	0.020	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25

Project Name: TUFTS STREET

Project Number: 045163

Lab Number: L2555013

Report Date: 09/05/25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2555013-01	045163-11MORT-F1	02275	Flow 5	08/27/25	533447		-	-	-	Pass	3.1	3.4	9
L2555013-01	045163-11MORT-F1	5660	6.0L TO Can	08/27/25	533447	L2551801-04	Pass	-29.6	-7.3	-	-	-	-
L2555013-02	045163-11MORT-B-FIN	0286	Flow 5	08/27/25	533447		-	-	-	Pass	3.1	3.1	0
L2555013-02	045163-11MORT-B-FIN	5923	6.0L TO Can	08/27/25	533447	L2551801-03	Pass	-29.0	-7.6	-	-	-	-
L2555013-03	045163-11MORT-B-UNFIN	02223	Flow 5	08/27/25	533447		-	-	-	Pass	3.0	2.7	11
L2555013-03	045163-11MORT-B-UNFIN	5781	6.0L TO Can	08/27/25	533447	L2551801-04	Pass	-29.6	-11.9	-	-	-	-
L2555013-04	045163-11MORT-SV-1	02848	Flow 2	08/27/25	533447		-	-	-	Pass	36.6	39.6	8
L2555013-04	045163-11MORT-SV-1	2044	2.7L Can	08/27/25	533447	L2546975-01	Pass	-29.4	-5.2	-	-	-	-
L2555013-05	045163-11MORT-SV-2	0909	Flow 2	08/27/25	533447		-	-	-	Pass	36.3	39.0	7
L2555013-05	045163-11MORT-SV-2	230	2.7L Can	08/27/25	533447	L2546975-01	Pass	-29.7	-6.3	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2546975
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2546975-01
Client ID: CAN 3026 SHELF 51
Sample Location:

Date Collected: 07/26/25 10:00
Date Received: 07/28/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/30/25 01:09
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2546975
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2546975-01
Client ID: CAN 3026 SHELF 51
Sample Location:

Date Collected: 07/26/25 10:00
Date Received: 07/28/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2546975
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2546975-01
Client ID: CAN 3026 SHELF 51
Sample Location:

Date Collected: 07/26/25 10:00
Date Received: 07/28/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2546975
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2546975-01
Client ID: CAN 3026 SHELF 51
Sample Location:

Date Collected: 07/26/25 10:00
Date Received: 07/28/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2546975

Project Number: CANISTER QC BAT **Report Date:** 09/05/25

Air Canister Certification Results

Lab ID: L2546975-01
Client ID: CAN 3026 SHELF 51
Sample Location:

Date Collected: 07/26/25 10:00
Date Received: 07/28/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	84		60-140
chlorobenzene-d5	86		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2546975
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2546975-01
Client ID: CAN 3026 SHELF 51
Sample Location:

Date Collected: 07/26/25 10:00
Date Received: 07/28/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/30/25 01:09
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2546975

Project Number: CANISTER QC BAT **Report Date:** 09/05/25

Air Canister Certification Results

Lab ID: L2546975-01
Client ID: CAN 3026 SHELF 51
Sample Location:

Date Collected: 07/26/25 10:00
Date Received: 07/28/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2546975

Project Number: CANISTER QC BAT **Report Date:** 09/05/25

Air Canister Certification Results

Lab ID: L2546975-01
Client ID: CAN 3026 SHELF 51
Sample Location:

Date Collected: 07/26/25 10:00
Date Received: 07/28/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	92		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2551801
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2551801-03
Client ID: CAN 984 SHELF 74
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/18/25 20:17
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2551801
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2551801-03
Client ID: CAN 984 SHELF 74
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2551801
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2551801-03
Client ID: CAN 984 SHELF 74
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2551801
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2551801-03
Client ID: CAN 984 SHELF 74
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2551801

Project Number: CANISTER QC BAT **Report Date:** 09/05/25

Air Canister Certification Results

Lab ID: L2551801-03
Client ID: CAN 984 SHELF 74
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	87		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2551801

Project Number: CANISTER QC BAT **Report Date:** 09/05/25

Air Canister Certification Results

Lab ID: L2551801-03
Client ID: CAN 984 SHELF 74
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/18/25 20:17
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2551801
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2551801-03
Client ID: CAN 984 SHELF 74
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2551801
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2551801-03
Client ID: CAN 984 SHELF 74
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	83		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	82		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2551801
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2551801-04
Client ID: CAN 2463 SHELF 97
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/18/25 20:57
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2551801
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2551801-04
Client ID: CAN 2463 SHELF 97
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2551801

Project Number: CANISTER QC BAT **Report Date:** 09/05/25

Air Canister Certification Results

Lab ID: L2551801-04
Client ID: CAN 2463 SHELF 97
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2551801
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2551801-04
Client ID: CAN 2463 SHELF 97
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2551801

Project Number: CANISTER QC BAT **Report Date:** 09/05/25

Air Canister Certification Results

Lab ID: L2551801-04
Client ID: CAN 2463 SHELF 97
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	107		60-140
Bromochloromethane	112		60-140
chlorobenzene-d5	102		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2551801

Project Number: CANISTER QC BAT **Report Date:** 09/05/25

Air Canister Certification Results

Lab ID: L2551801-04
Client ID: CAN 2463 SHELF 97
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/18/25 20:57
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2551801

Project Number: CANISTER QC BAT **Report Date:** 09/05/25

Air Canister Certification Results

Lab ID: L2551801-04
Client ID: CAN 2463 SHELF 97
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2551801

Project Number: CANISTER QC BAT **Report Date:** 09/05/25

Air Canister Certification Results

Lab ID: L2551801-04
Client ID: CAN 2463 SHELF 97
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	97		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2555013
Report Date: 09/05/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2555013-01A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2555013-02A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2555013-03A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2555013-04A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2555013-05A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name:	TUFTS STREET	**Lab Number:**	L2555013
Project Number:	045163	**Report Date:**	09/05/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2555013
Project Number:	045163	**Report Date:**	09/05/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2555013
Project Number:	045163	**Report Date:**	09/05/25

Data Qualifiers

ND	- Not detected at the reporting limit (RL) for the sample.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
S	- Analytical results are from modified screening analysis.
V	- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
Z	- The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2555013
Report Date: 09/05/25

REFERENCES

101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY kY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
MA M-MA00030, CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

Pace ANALYTICAL SERVICES

CHAIN OF CUSTODY

120 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 9/2/25

Pace® Job #: L2555013

Client Information

Client: GEI Consultants, Inc
Address: 400 Unicorn Park Drive
Woburn, MA 01801
Phone: 781 721 4000
Fax:
Email: labdata@geiconsultants.com
☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Tufts Street
Project Location: Somerville, MA
Project #: 041163
Project Manager: ChrisConer
Pace® Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved)
3 day TAT
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☒ See attached analyte list

All Columns Below Must Be Filled Out

PACE Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH (subset Non-Petroleum HCs) ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
55013-01	041163-11mort-F1	8/29/25	0906	0840	-30.25	-7.59	AA	CMG		5660	02275	X					
02	041163-11mort-B-Fin	8/29/25	0908	0905	-29.54	-8.17	AA	CMG		5923	0286	X					
03	041163-11mort-B-Unfin	8/29/25	0912	0908	-30.43	-12.58	AA	CMG		5781	0223	X					
04	041163-11mOH-SV-1	8/29/25	0912	1012	-29.80	-6.02	SV	CMG		2044	02848	X					
05	041163-11mort-SV-2	8/29/25	0915	1015	-29.84	-6.90	SV	CMG		230	0909	X					

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
C McCallum-Green	8/29/25 1100	GEI Field Room	8/29/25 1100
GEI Field Room	9/2/25 1452		9/2/25 1452
	9/2/25 1458		9/2/25 14:58
	9-2-25 16:25		9/2/25 [illegible]

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambi-guities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

Form No. 01-01 (25-Sep-15)

Serial_No:09052516:58

Tufts Street IA/SV Analyte List

- Vinyl chloride
- 1,1-Dichloroethene
- trans-1,2-Dichloroethane
- 1,1-Dichloroethane
- cis-1,2-Dichloroethene
- 1,1,1-Trichloroethane
- Trichloroethene
- 1,1,2-Trichloroethane
- Tetrachloroethene
- 1,1,2,2-Tetrachloroethane

Sample Delivery Group Summary

Pace Job Number : L2555013

Account Name : GEI Consultants
Project Number : 045163
Project Name : TUFTS STREET

Received : 02-SEP-2025
Reviewer : Tyler Hatch

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Absent/			

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels? L2555013-03: FC ID #0223 vs. FC ID #02223	**YES**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**YES**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NA**

ANALYTICAL REPORT

Lab Number:	L2562554
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	TUFTS STREET
Project Number:	045163
Report Date:	10/15/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NH ELAP (2249).

120 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.pacelabs.com

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2562554
Report Date: 10/15/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2562554-01	60TUFT-STOR2	AIR	SOMERVILLE, MA	10/01/25 06:53	10/02/25
L2562554-02	60TUFT-HALL	AIR	SOMERVILLE, MA	10/01/25 06:43	10/02/25
L2562554-03	60TUFT-GARG	AIR	SOMERVILLE, MA	10/01/25 06:40	10/02/25
L2562554-04	60TUFT-1	AIR	SOMERVILLE, MA	10/01/25 06:16	10/02/25
L2562554-05	60TUFT-STOR1	AIR	SOMERVILLE, MA	10/01/25 06:55	10/02/25
L2562554-06	60TUFTS4-1	AIR	SOMERVILLE, MA	10/01/25 09:00	10/02/25
L2562554-07	60TUFTS4-B	AIR	SOMERVILLE, MA	10/01/25 09:02	10/02/25
L2562554-08	60TUFT-SS10	SOIL_VAPOR	SOMERVILLE, MA	10/01/25 08:45	10/02/25
L2562554-09	60TUFTS4-SS2	SOIL_VAPOR	SOMERVILLE, MA	10/01/25 10:12	10/02/25
L2562554-10	60TUFT-STORAGES-SS2	SOIL_VAPOR	SOMERVILLE, MA	10/01/25 08:41	10/02/25
L2562554-11	60TUFT-SS1	SOIL_VAPOR	SOMERVILLE, MA	10/01/25 08:40	10/02/25
L2562554-12	60TUFT-SS14	SOIL_VAPOR	SOMERVILLE, MA	10/01/25 08:44	10/02/25
L2562554-13	60TUFT-SS13	SOIL_VAPOR	SOMERVILLE, MA	10/01/25 07:31	10/02/25

Project Name: TUFTS STREET **Lab Number:** L2562554

Project Number: 045163 **Report Date:** 10/15/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E 1.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E 2.	PFAS Only: Were aqueous samples extracted without filtering?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits/lower limits of quantitation at or below all CAM reporting limits/lower limits of quantitation specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	TUFTS STREET	**Lab Number:**	L2562554
Project Number:	045163	**Report Date:**	10/15/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2562554
Report Date: 10/15/25

Case Narrative (continued)

MCP Related Narratives

Canisters were released from the laboratory on September 3, 2025. The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

In reference to questions E b/I:

All samples were analyzed for a subset of the MCP compounds per the Chain of Custody.

L2562554-08D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2562554-11D: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2562554-13D: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 10/15/25

QC OUTLIER SUMMARY REPORT

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2562554
Report Date: 10/15/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment

There are no QC Outliers associated with this report.

AIR

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-01
Client ID: 60TUFT-STOR2
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 06:53
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/08/25 22:30
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	104		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-02
Client ID: 60TUFT-HALL
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 06:43
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/08/25 23:15
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.035	0.020	--	0.191	0.109	--		1
Trichloroethene	0.028	0.020	--	0.150	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.125	0.020	--	0.848	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	89		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	102		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-03
Client ID: 60TUFT-GARG
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 06:40
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/08/25 23:57
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.023	0.020	--	0.125	0.109	--		1
Trichloroethene	0.021	0.020	--	0.113	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.108	0.020	--	0.732	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	104		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-04
Client ID: 60TUFT-1
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 06:16
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/09/25 01:23
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.032	0.020	--	0.175	0.109	--		1
Trichloroethene	0.020	0.020	--	0.107	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.116	0.020	--	0.787	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	97		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	105		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-05
Client ID: 60TUFT-STOR1
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 06:55
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/09/25 02:08
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	94		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	105		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-06
Client ID: 60TUFTS4-1
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 09:00
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/09/25 02:53
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.028	0.020	--	0.153	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.039	0.020	--	0.264	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	90		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	102		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-07
Client ID: 60TUFTS4-B
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 09:02
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/09/25 03:36
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.046	0.020	--	0.312	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	95		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	102		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-08 D
Client ID: 60TUFT-SS10
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 08:45
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/10/25 00:44
Analyst: RAY

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.040	--	ND	0.102	--		2
1,1-Dichloroethene	0.204	0.040	--	0.809	0.159	--		2
trans-1,2-Dichloroethene	ND	0.040	--	ND	0.159	--		2
1,1-Dichloroethane	0.062	0.040	--	0.251	0.162	--		2
cis-1,2-Dichloroethene	0.088	0.040	--	0.349	0.159	--		2
1,1,1-Trichloroethane	21.8	0.040	--	119	0.218	--		2
Trichloroethene	13.1	0.040	--	70.4	0.215	--		2
1,1,2-Trichloroethane	ND	0.040	--	ND	0.218	--		2
Tetrachloroethene	49.0	0.040	--	332	0.271	--		2
1,1,2,2-Tetrachloroethane	ND	0.040	--	ND	0.275	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	97		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-09
Client ID: 60TUFTS4-SS2
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 10:12
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/10/25 01:25
Analyst: RAY

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.902	0.020	--	4.92	0.109	--		1
Trichloroethene	0.031	0.020	--	0.167	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.734	0.020	--	4.98	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	79		60-140
bromochloromethane	85		60-140
chlorobenzene-d5	81		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-10
Client ID: 60TUFT-STORAGES-SS2
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 08:41
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/10/25 02:03
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.113	0.020	--	0.448	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	0.039	0.020	--	0.158	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	5.13	0.020	--	28.0	0.109	--		1
Trichloroethene	0.180	0.020	--	0.967	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.269	0.020	--	1.82	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	84		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	87		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-11
Client ID: 60TUFT-SS1
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 08:40
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/10/25 02:44
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	16.0	0.020	--	63.4	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	0.153	0.020	--	0.619	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	68.3	0.020	--	373	0.109	--	E	1
Trichloroethene	2.84	0.020	--	15.3	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	2.38	0.020	--	16.1	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	90		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	95		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-11 D
Client ID: 60TUFT-SS1
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 08:40
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/10/25 06:36
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
1,1,1-Trichloroethane	68.5	0.050	--	374	0.273	--		2.5

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	83		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	90		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-12
Client ID: 60TUFT-SS14
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 08:44
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/10/25 03:25
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	0.028	0.020	--	0.113	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	14.9	0.020	--	81.3	0.109	--		1
Trichloroethene	5.28	0.020	--	28.4	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	39.6	0.020	--	269	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	83		60-140
bromochloromethane	87		60-140
chlorobenzene-d5	88		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-13
Client ID: 60TUFT-SS13
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 07:31
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/10/25 04:05
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	0.026	0.020	--	0.103	0.079	--		1
trans-1,2-Dichloroethene	0.023	0.020	--	0.091	0.079	--		1
1,1-Dichloroethane	0.096	0.020	--	0.389	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	61.7	0.020	--	337	0.109	--	E	1
Trichloroethene	2.45	0.020	--	13.2	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	41.3	0.020	--	280	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	87		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	92		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2562554
Report Date: 10/15/25

SAMPLE RESULTS

Lab ID: L2562554-13 D
Client ID: 60TUFT-SS13
Sample Location: SOMERVILLE, MA

Date Collected: 10/01/25 07:31
Date Received: 10/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/10/25 07:12
Analyst: RAY

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
1,1,1-Trichloroethane	61.9	0.050	--	338	0.273	--		2.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	80		60-140
bromochloromethane	84		60-140
chlorobenzene-d5	84		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2562554
Report Date: 10/15/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15-SIM
Analytical Date: 10/08/25 19:38

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab for sample(s): 01-07 Batch: WG2125387-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2562554
Report Date: 10/15/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15-SIM
Analytical Date: 10/09/25 17:40

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab for sample(s): 08-13 Batch: WG2125931-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2562554
Report Date: 10/15/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-07 Batch: WG2125387-3								
Vinyl chloride	125		-		70-130	-		
1,1-Dichloroethene	105		-		70-130	-		
trans-1,2-Dichloroethene	107		-		70-130	-		
1,1-Dichloroethane	97		-		70-130	-		
cis-1,2-Dichloroethene	104		-		70-130	-		
1,1,1-Trichloroethane	126		-		70-130	-		
Trichloroethene	115		-		70-130	-		
1,1,2-Trichloroethane	119		-		70-130	-		
Tetrachloroethene	79		-		70-130	-		
1,1,2,2-Tetrachloroethane	91		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2562554
Report Date: 10/15/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 08-13 Batch: WG2125931-3								
Vinyl chloride	93		-		70-130	-		
1,1-Dichloroethene	87		-		70-130	-		
trans-1,2-Dichloroethene	83		-		70-130	-		
1,1-Dichloroethane	86		-		70-130	-		
cis-1,2-Dichloroethene	83		-		70-130	-		
1,1,1-Trichloroethane	115		-		70-130	-		
Trichloroethene	89		-		70-130	-		
1,1,2-Trichloroethane	104		-		70-130	-		
Tetrachloroethene	82		-		70-130	-		
1,1,2,2-Tetrachloroethane	98		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2562554
Report Date: 10/15/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-07 QC Batch ID: WG2125387-5 QC Sample: L2562554-03 Client ID: 60TUFT-GARG						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	0.023	0.021	ppbV	9		25
Trichloroethene	0.021	0.022	ppbV	5		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Tetrachloroethene	0.108	0.102	ppbV	6		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25

Project Name: TUFTS STREET

Project Number: 045163

Lab Number: L2562554

Report Date: 10/15/25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2562554-01	60TUFT-STOR2	02918	Flow 5	09/03/25	534133		-	-	-	Pass	3.0	3.0	0
L2562554-01	60TUFT-STOR2	2647	6.0L Can	09/03/25	534133	L2553565-07	Pass	-29.6	-9.8	-	-	-	-
L2562554-02	60TUFT-HALL	01686	Flow 5	09/03/25	534133		-	-	-	Pass	3.2	3.3	3
L2562554-02	60TUFT-HALL	3354	6.0L Can	09/03/25	534133	L2553565-08	Pass	-29.6	-9.8	-	-	-	-
L2562554-03	60TUFT-GARG	01247	Flow 5	09/03/25	534133		-	-	-	Pass	3.1	3.3	6
L2562554-03	60TUFT-GARG	4266	6.0L Can	09/03/25	534133	L2553565-08	Pass	-29.6	-8.5	-	-	-	-
L2562554-04	60TUFT-1	0845	Flow 5	09/03/25	534133		-	-	-	Pass	3.1	3.0	3
L2562554-04	60TUFT-1	2901	6.0L Can	09/03/25	534133	L2553565-07	Pass	-29.6	-8.7	-	-	-	-
L2562554-05	60TUFT-STOR1	02264	Flow 5	09/03/25	534133		-	-	-	Pass	3.2	3.3	3
L2562554-05	60TUFT-STOR1	1844	6.0L Can	09/03/25	534133	L2553565-08	Pass	-29.5	-10.8	-	-	-	-
L2562554-06	60TUFTS4-1	02258	Flow 5	09/03/25	534133		-	-	-	Pass	3.0	3.1	3
L2562554-06	60TUFTS4-1	2659	6.0L Can	09/03/25	534133	L2553565-07	Pass	-29.6	-11.6	-	-	-	-
L2562554-07	60TUFTS4-B	01117	Flow 5	09/03/25	534133		-	-	-	Pass	3.0	3.1	3
L2562554-07	60TUFTS4-B	2585	6.0L Can	09/03/25	534133	L2553565-07	Pass	-29.6	-9.0	-	-	-	-
L2562554-08	60TUFT-SS10	01039	Flow 2	09/03/25	534133		-	-	-	Pass	35.5	38.0	7

Project Name: TUFTS STREET

Project Number: 045163

Lab Number: L2562554

Report Date: 10/15/25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2562554-08	60TUFT-SS10	550	2.7L Can	09/03/25	534133	L2554143-01	Pass	-29.4	-3.7	-	-	-	-
L2562554-09	60TUFTS4-SS2	03039	Flow 2	09/03/25	534133		-	-	-	Pass	35.7	37.3	4
L2562554-09	60TUFTS4-SS2	2078	2.7L Can	09/03/25	534133	L2554143-01	Pass	-29.5	-6.3	-	-	-	-
L2562554-10	60TUFT-STORAGES-SS2	03032	Flow 2	09/03/25	534133		-	-	-	Pass	36.5	38.0	4
L2562554-10	60TUFT-STORAGES-SS2	3898	2.7L Can	09/03/25	534133	L2553565-01	Pass	-29.6	-4.3	-	-	-	-
L2562554-11	60TUFT-SS1	03162	Flow 2	09/03/25	534133		-	-	-	Pass	36.2	37.7	4
L2562554-11	60TUFT-SS1	351	2.7L Can	09/03/25	534133	L2554143-01	Pass	-29.6	-5.4	-	-	-	-
L2562554-12	60TUFT-SS14	03145	Flow 2	09/03/25	534133		-	-	-	Pass	36.3	37.7	4
L2562554-12	60TUFT-SS14	153	2.7L Can	09/03/25	534133	L2553565-01	Pass	-29.5	-5.6	-	-	-	-
L2562554-13	60TUFT-SS13	01541	Flow 2	09/03/25	534133		-	-	-	Pass	36.1	40.5	11
L2562554-13	60TUFT-SS13	199	2.7L Can	09/03/25	534133	L2554143-01	Pass	-29.5	-5.3	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2553565
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2553565-01
Client ID: CAN 513 SHELF 10
Sample Location:

Date Collected: 08/25/25 15:00
Date Received: 08/26/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/26/25 20:45
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2553565
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2553565-01
Client ID: CAN 513 SHELF 10
Sample Location:

Date Collected: 08/25/25 15:00
Date Received: 08/26/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2553565
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2553565-01
Client ID: CAN 513 SHELF 10
Sample Location:

Date Collected: 08/25/25 15:00
Date Received: 08/26/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2553565
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2553565-01
Client ID: CAN 513 SHELF 10
Sample Location:

Date Collected: 08/25/25 15:00
Date Received: 08/26/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2553565

Project Number: CANISTER QC BAT **Report Date:** 10/15/25

Air Canister Certification Results

Lab ID: L2553565-01
Client ID: CAN 513 SHELF 10
Sample Location:

Date Collected: 08/25/25 15:00
Date Received: 08/26/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		60-140
Bromochloromethane	109		60-140
chlorobenzene-d5	99		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2553565
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2553565-01
Client ID: CAN 513 SHELF 10
Sample Location:

Date Collected: 08/25/25 15:00
Date Received: 08/26/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/26/25 20:45
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2553565

Project Number: CANISTER QC BAT **Report Date:** 10/15/25

Air Canister Certification Results

Lab ID: L2553565-01
Client ID: CAN 513 SHELF 10
Sample Location:

Date Collected: 08/25/25 15:00
Date Received: 08/26/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2553565
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2553565-01
Client ID: CAN 513 SHELF 10
Sample Location:

Date Collected: 08/25/25 15:00
Date Received: 08/26/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	76		60-140
bromochloromethane	82		60-140
chlorobenzene-d5	76		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2553565
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2553565-07
Client ID: CAN 2275 SHELF 94
Sample Location:

Date Collected: 08/26/25 10:00
Date Received: 08/26/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/27/25 00:42
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2553565
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2553565-07
Client ID: CAN 2275 SHELF 94
Sample Location:

Date Collected: 08/26/25 10:00
Date Received: 08/26/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2553565
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2553565-07
Client ID: CAN 2275 SHELF 94
Sample Location:

Date Collected: 08/26/25 10:00
Date Received: 08/26/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2553565
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2553565-07
Client ID: CAN 2275 SHELF 94
Sample Location:

Date Collected: 08/26/25 10:00
Date Received: 08/26/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2553565
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2553565-07
Client ID: CAN 2275 SHELF 94
Sample Location:

Date Collected: 08/26/25 10:00
Date Received: 08/26/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	109		60-140
Bromochloromethane	108		60-140
chlorobenzene-d5	100		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2553565
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2553565-07
Client ID: CAN 2275 SHELF 94
Sample Location:

Date Collected: 08/26/25 10:00
Date Received: 08/26/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/27/25 00:42
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2553565
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2553565-07
Client ID: CAN 2275 SHELF 94
Sample Location:

Date Collected: 08/26/25 10:00
Date Received: 08/26/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2553565
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2553565-07
Client ID: CAN 2275 SHELF 94
Sample Location:

Date Collected: 08/26/25 10:00
Date Received: 08/26/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	81		60-140
bromochloromethane	80		60-140
chlorobenzene-d5	78		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2553565
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2553565-08
Client ID: CAN 1620 SHELF 95
Sample Location:

Date Collected: 08/26/25 10:00
Date Received: 08/26/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/27/25 01:21
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2553565
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2553565-08
Client ID: CAN 1620 SHELF 95
Sample Location:

Date Collected: 08/26/25 10:00
Date Received: 08/26/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2553565
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2553565-08
Client ID: CAN 1620 SHELF 95
Sample Location:

Date Collected: 08/26/25 10:00
Date Received: 08/26/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2553565
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2553565-08
Client ID: CAN 1620 SHELF 95
Sample Location:

Date Collected: 08/26/25 10:00
Date Received: 08/26/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2553565

Project Number: CANISTER QC BAT **Report Date:** 10/15/25

Air Canister Certification Results

Lab ID: L2553565-08
Client ID: CAN 1620 SHELF 95
Sample Location:

Date Collected: 08/26/25 10:00
Date Received: 08/26/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	120		60-140
Bromochloromethane	118		60-140
chlorobenzene-d5	113		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2553565

Project Number: CANISTER QC BAT **Report Date:** 10/15/25

Air Canister Certification Results

Lab ID: L2553565-08
Client ID: CAN 1620 SHELF 95
Sample Location:

Date Collected: 08/26/25 10:00
Date Received: 08/26/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/27/25 01:21
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2553565
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2553565-08
Client ID: CAN 1620 SHELF 95
Sample Location:

Date Collected: 08/26/25 10:00
Date Received: 08/26/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2553565
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2553565-08
Client ID: CAN 1620 SHELF 95
Sample Location:

Date Collected: 08/26/25 10:00
Date Received: 08/26/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	89		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	86		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2554143
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2554143-01
Client ID: CAN 527 SHELF 4
Sample Location:

Date Collected: 08/27/25 15:00
Date Received: 08/28/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/28/25 18:24
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2554143
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2554143-01
Client ID: CAN 527 SHELF 4
Sample Location:

Date Collected: 08/27/25 15:00
Date Received: 08/28/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2554143
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2554143-01
Client ID: CAN 527 SHELF 4
Sample Location:

Date Collected: 08/27/25 15:00
Date Received: 08/28/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2554143
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2554143-01
Client ID: CAN 527 SHELF 4
Sample Location:

Date Collected: 08/27/25 15:00
Date Received: 08/28/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2554143
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2554143-01
Client ID: CAN 527 SHELF 4
Sample Location:

Date Collected: 08/27/25 15:00
Date Received: 08/28/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2554143
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2554143-01
Client ID: CAN 527 SHELF 4
Sample Location:

Date Collected: 08/27/25 15:00
Date Received: 08/28/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/28/25 18:24
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2554143
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2554143-01
Client ID: CAN 527 SHELF 4
Sample Location:

Date Collected: 08/27/25 15:00
Date Received: 08/28/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2554143
Report Date: 10/15/25

Air Canister Certification Results

Lab ID: L2554143-01
Client ID: CAN 527 SHELF 4
Sample Location:

Date Collected: 08/27/25 15:00
Date Received: 08/28/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	97		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2562554
Report Date: 10/15/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2562554-01A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2562554-02A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2562554-03A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2562554-04A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2562554-05A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2562554-06A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2562554-07A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2562554-08A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2562554-09A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2562554-10A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2562554-11A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2562554-12A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2562554-13A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name:	TUFTS STREET	**Lab Number:**	L2562554
Project Number:	045163	**Report Date:**	10/15/25

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2562554
Project Number:	045163	**Report Date:**	10/15/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2562554
Project Number:	045163	**Report Date:**	10/15/25

Data Qualifiers

ND	- Not detected at the reporting limit (RL) for the sample.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
S	- Analytical results are from modified screening analysis.
V	- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
Z	- The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2562554
Report Date: 10/15/25

REFERENCES

101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY kY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
MA M-MA00030, CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

AIR ANALYSIS

PAGE 1 OF 2

CHAIN OF CUSTODY

ALPHA ANALYTICAL
320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/2/25

ALPHA Job #: L2562554

Client Information

Client: GEI Consultants Inc
Address: 400 Unicorn Park Drive
Woburn, MA 01801
Phone: 781-721-4000
Fax:
Email: labdata@geiconsultants.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Tufts St
Project Location: Somerville, MA
Project #: 045163
Project Manager: Chris Coner
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker:
(Default based on Regulatory Criteria indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☒ See attached analyte list

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH Subset Nonaldehydes HCs	Fixed Gases	Sulfides & Mercaptans by TO-15	☐	Sample Comments (i.e. PID)
62554-01	GOTUFT-STOR2	10/1/25	0653	0653	-29.97	-10.25	IA	JWG	6L	2647	02918	X						
02	GOTUFT-HALL		0643	0643	-30.34	-10.21	IA		6L	3354	01686	X						
03	GOTUFT-GARG		0640	0640	-30.21	-8.86	IA		6L	4266	01247	X						
04	GOTUFTS-1		0616	0616	-30.31	-9.02	IA		6L	2901	0845	X						
05	GOTUFT-STOR1		0655	0655	-30.09	-11.32	IA		6L	1844	02264	X						
06	GOTUFTS4-1		0900	0900	-30.03	-11.94	IA		6L	2659	02258	X						
07	GOTUFTS4-B		0902	0902	-30.21	-9.62	IA		6L	2585	01117	X						
08	GOTUFT-SS10		0745	0845	-28.72	-4.25	SV		2.7L	550	01039	X						
09	GOTUFTS4-SS2		0912	1012	-30.07	-6.86	SV		2.7L	2078	03039	X						
10	GOTUFT-StorageS-SS2		0741	0841	-29.82	-4.79	SV		2.7L	3898	03032	X						

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
Jillian Scully GEI Field Room	10/1/25 1105	GEI Field Room	10/1/25 1105
	10/2/25 11:27		10/2/25 11:27
	10/2/25 11:27		10/2/25 11:27
	10/2/25 17:13		10/2/25 17:13

10/2/25 2150

Form No: 101-02 Rev: (25-Sep-15)

AIR ANALYSIS

PAGE 2 OF 2

ALPHA ANALYTICAL — CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #:

Client Information

Client: GEI Consultants Inc
Address: 400 Unicorn Park Drive
Woburn, MA 01801
Phone: 781-721-4000
Fax:
Email: labdata@geiconsultants.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Tufts St
Project Location: Somerville, MA
Project #: 045163
Project Manager: Chris Coner
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☒ See attached analyte list

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH (Subset of non-petroleum HCs) ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
11	60TUFT-SS1	10/1/25	0740	0840	-29.92	-6.20	SV	JWG	2.7L	351	03162	X					
12	60TUFT-SS14	↓	0744	0844	-29.68	-6.01	SV	↓	2.7L	153	03145	X					
13	60TUFTS-SS13	↓	0631	0731	-30.67	-5.15	SV	↓	2.7L	199	01541	X					

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
Jillian Reed / GEI Field Room	10/1/25 1105	GEI Field Room	10/1/25 1105
	10/2/25 11:27		10/2/25 11:27
	10/2/25 11:27		10/2/25 1127
	10/2/25 17:13		10/2/25 1713

10/2/25 2150

Indoor Air Sampling Analyte List

- 1,1-Dichloroethane
- 1,1-Dichloroethylene
- trans-1,2-Dichloroethylene
- cis-1,2-Dichloroethylene
- 1,1,1-Trichloroethane
- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloroethane
- Tetrachloroethylene
- Trichloroethylene
- Vinyl Chloride

Sample Delivery Group Summary

Pace Job Number : L2562554

Account Name : GEI Consultants
Project Number : 045163
Project Name : TUFTS STREET

Received : 02-OCT-2025
Reviewer : Christopher J Anderson

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Present/Intact/NA			

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**YES**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NA**

ANALYTICAL REPORT

Lab Number:	L2579871
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	50 TUFTS ST
Project Number:	045163
Report Date:	12/22/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NH ELAP (2249).

120 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.pacelabs.com

Project Name: 50 TUFTS ST
Project Number: 045163

Lab Number: L2579871
Report Date: 12/22/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2579871-01	045163-121WASH-SV-1	SOIL_VAPOR	SOMERVILLE, MA	12/12/25 14:35	12/15/25
L2579871-02	045163-121WASH-SV-2	SOIL_VAPOR	SOMERVILLE, MA	12/12/25 14:37	12/15/25

Project Name: 50 TUFTS ST
Project Number: 045163
Lab Number: L2579871
Report Date: 12/22/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E 1.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E 2.	PFAS Only: Were aqueous samples extracted without filtering?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits/lower limits of quantitation at or below all CAM reporting limits/lower limits of quantitation specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	50 TUFTS ST	**Lab Number:**	L2579871
Project Number:	045163	**Report Date:**	12/22/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 50 TUFTS ST
Project Number: 045163

Lab Number: L2579871
Report Date: 12/22/25

Case Narrative (continued)

MCP Related Narratives

Canisters were released from the laboratory on December 8, 2025. The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

In reference to questions E b/I:

All samples were analyzed for a subset of the MCP compounds per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Jennifer Jerome

Title: Technical Director/Representative Date: 12/22/25

QC OUTLIER SUMMARY REPORT

Project Name: 50 TUFTS ST
Project Number: 045163

Lab Number: L2579871
Report Date: 12/22/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment

There are no QC Outliers associated with this report.

AIR

Project Name: 50 TUFTS ST
Project Number: 045163

Lab Number: L2579871
Report Date: 12/22/25

SAMPLE RESULTS

Lab ID: L2579871-01
Client ID: 045163-121WASH-SV-1
Sample Location: SOMERVILLE, MA

Date Collected: 12/12/25 14:35
Date Received: 12/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/21/25 04:58
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.075	0.020	--	0.403	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.059	0.020	--	0.400	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	97		60-140
bromochloromethane	102		60-140
chlorobenzene-d5	97		60-140

Project Name: 50 TUFTS ST
Project Number: 045163

Lab Number: L2579871
Report Date: 12/22/25

SAMPLE RESULTS

Lab ID: L2579871-02
Client ID: 045163-121WASH-SV-2
Sample Location: SOMERVILLE, MA

Date Collected: 12/12/25 14:37
Date Received: 12/15/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/21/25 05:38
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.024	0.020	--	0.131	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.088	0.020	--	0.597	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	99		60-140
bromochloromethane	102		60-140
chlorobenzene-d5	105		60-140

Project Name: 50 TUFTS ST
Project Number: 045163
Lab Number: L2579871
Report Date: 12/22/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15-SIM
Analytical Date: 12/20/25 23:30

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab for sample(s): 01-02 Batch: WG2156691-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: 50 TUFTS ST
Project Number: 045163

Lab Number: L2579871
Report Date: 12/22/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-02 Batch: WG2156691-3								
Vinyl chloride	86		-		70-130	-		
1,1-Dichloroethene	89		-		70-130	-		
trans-1,2-Dichloroethene	86		-		70-130	-		
1,1-Dichloroethane	89		-		70-130	-		
cis-1,2-Dichloroethene	87		-		70-130	-		
1,1,1-Trichloroethane	94		-		70-130	-		
Trichloroethene	96		-		70-130	-		
1,1,2-Trichloroethane	102		-		70-130	-		
Tetrachloroethene	96		-		70-130	-		
1,1,2,2-Tetrachloroethane	117		-		70-130	-		

Project Name: 50 TUFTS ST

Lab Number: L2579871

Project Number: 045163

Report Date: 12/22/25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2579871-01	045163-121WASH-SV-1	0559	Flow 2	12/08/25	547495		-	-	-	Pass	35.9	38.5	7
L2579871-01	045163-121WASH-SV-1	2850	2.7L Can	12/08/25	547495	L2576461-07	Pass	-29.5	-3.9	-	-	-	-
L2579871-02	045163-121WASH-SV-2	03022	Flow 2	12/08/25	547495		-	-	-	Pass	36.0	39.1	8
L2579871-02	045163-121WASH-SV-2	2342	2.7L Can	12/08/25	547495	L2576461-07	Pass	-29.5	-3.2	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2576461
Report Date: 12/22/25

Air Canister Certification Results

Lab ID: L2576461-07
Client ID: CAN 321 SHELF 2
Sample Location:

Date Collected: 12/03/25 12:00
Date Received: 12/03/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/04/25 01:35
Analyst: ONG

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2576461
Report Date: 12/22/25

Air Canister Certification Results

Lab ID: L2576461-07
Client ID: CAN 321 SHELF 2
Sample Location:

Date Collected: 12/03/25 12:00
Date Received: 12/03/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2576461
Report Date: 12/22/25

Air Canister Certification Results

Lab ID: L2576461-07
Client ID: CAN 321 SHELF 2
Sample Location:

Date Collected: 12/03/25 12:00
Date Received: 12/03/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2576461
Report Date: 12/22/25

Air Canister Certification Results

Lab ID: L2576461-07
Client ID: CAN 321 SHELF 2
Sample Location:

Date Collected: 12/03/25 12:00
Date Received: 12/03/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2576461

Project Number: CANISTER QC BAT **Report Date:** 12/22/25

Air Canister Certification Results

Lab ID: L2576461-07
Client ID: CAN 321 SHELF 2
Sample Location:

Date Collected: 12/03/25 12:00
Date Received: 12/03/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	86		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2576461
Report Date: 12/22/25

Air Canister Certification Results

Lab ID: L2576461-07
Client ID: CAN 321 SHELF 2
Sample Location:

Date Collected: 12/03/25 12:00
Date Received: 12/03/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/04/25 01:35
Analyst: ONG

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2576461
Report Date: 12/22/25

Air Canister Certification Results

Lab ID: L2576461-07
Client ID: CAN 321 SHELF 2
Sample Location:

Date Collected: 12/03/25 12:00
Date Received: 12/03/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2576461
Report Date: 12/22/25

Air Canister Certification Results

Lab ID: L2576461-07
Client ID: CAN 321 SHELF 2
Sample Location:

Date Collected: 12/03/25 12:00
Date Received: 12/03/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	105		60-140
bromochloromethane	109		60-140
chlorobenzene-d5	107		60-140

Project Name: 50 TUFTS ST
Project Number: 045163

Lab Number: L2579871
Report Date: 12/22/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2579871-01A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2579871-02A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name:	50 TUFTS ST	**Lab Number:**	L2579871
Project Number:	045163	**Report Date:**	12/22/25

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	50 TUFTS ST	**Lab Number:**	L2579871
Project Number:	045163	**Report Date:**	12/22/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	50 TUFTS ST	**Lab Number:**	L2579871
Project Number:	045163	**Report Date:**	12/22/25

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report

Project Name: 50 TUFTS ST
Project Number: 045163
Lab Number: L2579871
Report Date: 12/22/25

REFERENCES

101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

ENV-FORM-WES2-0065 v01 Certificate/Approval Program Summary

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

ENV-FORM-WES2-0065 v01 Certificate/Approval Program Summary

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY kY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, CA 3117, CO MA00030, CT PH-0825, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MD 350, MA M-MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, UT MA00030, VT VT-0015, VA 460194, WA C954.

Mansfield Air Lab Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

Pace ANALYTICAL SERVICES

CHAIN OF CUSTODY

120 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 12/15/25

Pace® Job #: L2509871

Client Information

Client: GEI Consultants

Address: 100 Quannapowitt Parkway
Wakefield, MA 01880

Phone:

Fax:

Email: labdata@geiconsultants.com

☐ These samples have been previously analyzed by Pace

Project Information

Project Name: 50 Tufts St

Project Location: Somerville, MA

Project #: 045163

Project Manager: Chris Coner

Pace® Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:

Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☒ See attached list

All Columns Below Must Be Filled Out

PACE Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH (Method Non-petroleum HCs ☐)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
79871-01	045163-121WASH-SV-1	12/12/25	1335	1435	-30.03	-5.15	SV	JRH	2.7L	2850	0559	X					
-02	045163-121WASH-SV-2	12/12/25	1337	1437	-29.52	-4.77	SV	JRH	2.7L	2342	03022	X					

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambi-guities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
[illegible] Fridge Room	12/12/25 1555	GEI Field room	12/12/25 1555
[illegible] PACE	12/15/25 1225	[illegible] PACE	12/15/25 1225
	12/15/25 1225	[illegible] Mendon	12/15/25 1225

Sample Delivery Group Summary

Pace Job Number : L2579871

Account Name : GEI Consultants
Project Number : 045163
Project Name : 50 TUFTS ST

Received : 15-DEC-2025
Reviewer : Jennifer Jerome

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Absent/			

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**YES**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NA**

ANALYTICAL REPORT

Lab Number:	L2582281
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	TUFTS STREET
Project Number:	045163
Report Date:	12/30/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NH ELAP (2249).

120 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.pacelabs.com

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582281
Report Date: 12/30/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2582281-01	045163-34-KNOW-B	AIR	SOMERVILLE, MA	12/19/25 08:35	12/22/25
L2582281-02	045163-34-KNOW-1	AIR	SOMERVILLE, MA	12/19/25 08:40	12/22/25
L2582281-03	045163-34-KNOW-SV-R	SOIL_VAPOR	SOMERVILLE, MA	12/19/25 10:00	12/22/25

Project Name: TUFTS STREET **Lab Number:** L2582281

Project Number: 045163 **Report Date:** 12/30/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E 1.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E 2.	PFAS Only: Were aqueous samples extracted without filtering?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits/lower limits of quantitation at or below all CAM reporting limits/lower limits of quantitation specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	TUFTS STREET	**Lab Number:**	L2582281
Project Number:	045163	**Report Date:**	12/30/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582281
Report Date: 12/30/25

Case Narrative (continued)

MCP Related Narratives

Canisters were released from the laboratory on December 17, 2025. The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

In reference to questions E b/I:

All samples were analyzed for a subset of the MCP compounds per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Jennifer Jerome

Title: Technical Director/Representative Date: 12/30/25

QC OUTLIER SUMMARY REPORT

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582281
Report Date: 12/30/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment

There are no QC Outliers associated with this report.

AIR

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582281
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582281-01
Client ID: 045163-34-KNOW-B
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 08:35
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 17:57
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	0.048	0.020	--	0.190	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	93		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	97		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582281
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582281-02
Client ID: 045163-34-KNOW-1
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 08:40
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 18:29
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	0.038	0.020	--	0.151	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	96		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	99		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582281
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582281-03
Client ID: 045163-34-KNOW-SV-R
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 10:00
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/30/25 03:47
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	0.034	0.020	--	0.135	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.148	0.020	--	1.00	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	93		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	99		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582281
Report Date: 12/30/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 16:25

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab for sample(s): 01-03 Batch: WG2159780-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582281
Report Date: 12/30/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-03 Batch: WG2159780-3								
Vinyl chloride	85		-		70-130	-		
1,1-Dichloroethene	86		-		70-130	-		
trans-1,2-Dichloroethene	89		-		70-130	-		
1,1-Dichloroethane	82		-		70-130	-		
cis-1,2-Dichloroethene	91		-		70-130	-		
1,1,1-Trichloroethane	126		-		70-130	-		
Trichloroethene	107		-		70-130	-		
1,1,2-Trichloroethane	107		-		70-130	-		
Tetrachloroethene	99		-		70-130	-		
1,1,2,2-Tetrachloroethane	97		-		70-130	-		

Project Name: TUFTS STREET

Project Number: 045163

Lab Number: L2582281

Report Date: 12/30/25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2582281-01	045163-34-KNOW-B	03144	Flow 5	12/17/25	548827		-	-	-	Pass	2.9	2.5	15
L2582281-01	045163-34-KNOW-B	5213	6.0L Can	12/17/25	548827	L2579530-09	Pass	-28.9	-13.8	-	-	-	-
L2582281-02	045163-34-KNOW-1	01468	Flow 5	12/17/25	548827		-	-	-	Pass	3.0	3.2	6
L2582281-02	045163-34-KNOW-1	3955	6.0L Can	12/17/25	548827	L2579530-09	Pass	-28.9	-8.8	-	-	-	-
L2582281-03	045163-34-KNOW-SV-R	01541	Flow 2	12/17/25	548827		-	-	-	Pass	36.1	36.2	0
L2582281-03	045163-34-KNOW-SV-R	205	2.7L Can	12/17/25	548827	L2579145-04	Pass	-29.4	-7.1	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-04
Client ID: CAN 3247 SHELF 46
Sample Location:

Date Collected: 12/11/25 16:25
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/13/25 00:37
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-04
Client ID: CAN 3247 SHELF 46
Sample Location:

Date Collected: 12/11/25 16:25
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-04
Client ID: CAN 3247 SHELF 46
Sample Location:

Date Collected: 12/11/25 16:25
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-04
Client ID: CAN 3247 SHELF 46
Sample Location:

Date Collected: 12/11/25 16:25
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2579145

Project Number: CANISTER QC BAT **Report Date:** 12/30/25

Air Canister Certification Results

Lab ID: L2579145-04
Client ID: CAN 3247 SHELF 46
Sample Location:

Date Collected: 12/11/25 16:25
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-04
Client ID: CAN 3247 SHELF 46
Sample Location:

Date Collected: 12/11/25 16:25
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/13/25 00:37
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2579145

Project Number: CANISTER QC BAT **Report Date:** 12/30/25

Air Canister Certification Results

Lab ID: L2579145-04
Client ID: CAN 3247 SHELF 46
Sample Location:

Date Collected: 12/11/25 16:25
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-04
Client ID: CAN 3247 SHELF 46
Sample Location:

Date Collected: 12/11/25 16:25
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	67		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	76		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-09
Client ID: CAN 3345 SHELF 98
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/14/25 03:21
Analyst: ONG

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-09
Client ID: CAN 3345 SHELF 98
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-09
Client ID: CAN 3345 SHELF 98
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-09
Client ID: CAN 3345 SHELF 98
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2579530

Project Number: CANISTER QC BAT **Report Date:** 12/30/25

Air Canister Certification Results

Lab ID: L2579530-09
Client ID: CAN 3345 SHELF 98
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	98		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-09
Client ID: CAN 3345 SHELF 98
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/14/25 03:21
Analyst: ONG

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-09
Client ID: CAN 3345 SHELF 98
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-09
Client ID: CAN 3345 SHELF 98
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	92		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582281
Report Date: 12/30/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2582281-01A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2582281-02A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2582281-03A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name:	TUFTS STREET	**Lab Number:**	L2582281
Project Number:	045163	**Report Date:**	12/30/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2582281
Project Number:	045163	**Report Date:**	12/30/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2582281
Project Number:	045163	**Report Date:**	12/30/25

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582281
Report Date: 12/30/25

REFERENCES

101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

ENV-FORM-WES2-0065 v01 Certificate/Approval Program Summary

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

ENV-FORM-WES2-0065 v01 Certificate/Approval Program Summary

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY kY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, CA 3117, CO MA00030, CT PH-0825, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MD 350, MA M-MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, UT MA00030, VT VT-0015, VA 460194, WA C954.

Mansfield Air Lab Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

ALPHA ANALYTICAL — CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 12/22/25

ALPHA Job #: L2582281

Client Information

Client: GEI Consultants Inc.
Address: 100 Quannapowitt Parkway
Wakefield, MA 01880
Phone: 781-721-4000
Fax:
Email: labdata@geiconsultants.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Tufts Street
Project Location: Somerville, MA
Project #: 045163
Project Manager: Chris Coner
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☒

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH (Subject Non-Spiked with HCs ☐)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
82281-01	045163-34-KNOW-B	12/19/25	8:35	8:35	-30.28	-14.52	AA	NMT	6 L	5213	03144	X					see attached list of analytes
-02	045163-34-KNOW-1	12/19/25	8:40	8:40	-30.26	-8.89	AA	NMT	6 L	3955	01468	X					
-03	045163-34-KNOW-SV-R	12/19/25	9:00	10:00	-30.07	-8.27	SV	NMT	2.7 L	205	01541	X					

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
NT	12/19/25 14:00	GEI Fieldroom	12/19/25 1400
GEI Fieldroom	12/22/25 09:10	[signature]	12/22/25 09:10
[signature] PACE	12-22-25 1220	[signature] PACE	12-22-25 0910
[signature] pas	12/22/25 1708	[signature] pas	12/22/25 1450

Form No: 101-02 Rev: (25-Sep-15)

12/22/25 1908

Indoor Air Sampling Analyte List

- 1,1-Dichloroethane
- 1,1-Dichloroethylene
- trans-1,2-Dichloroethylene
- cis-1,2-Dichloroethylene
- 1,1,1-Trichloroethane
- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloroethane
- Tetrachloroethylene
- Trichloroethylene
- Vinyl Chloride

Sample Delivery Group Summary

Pace Job Number : L2582281

Account Name : GEI Consultants
Project Number : 045163
Project Name : TUFTS STREET

Received : 22-DEC-2025
Reviewer : Christopher J Anderson

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Present/Intact/NA			

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**YES**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NA**

ANALYTICAL REPORT

Lab Number:	L2582287
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	TUFTS STREET
Project Number:	045163
Report Date:	12/30/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NH ELAP (2249).

120 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.pacelabs.com

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582287
Report Date: 12/30/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2582287-01	045163-93FRAN-B	AIR	SOMERVILLE, MA	12/19/25 07:35	12/22/25
L2582287-02	045163-91FRAN-1	AIR	SOMERVILLE, MA	12/19/25 07:40	12/22/25
L2582287-03	045163-93FRAN-1	AIR	SOMERVILLE, MA	12/19/25 07:50	12/22/25

Project Name: TUFTS STREET **Lab Number:** L2582287

Project Number: 045163 **Report Date:** 12/30/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E 1.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E 2.	PFAS Only: Were aqueous samples extracted without filtering?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits/lower limits of quantitation at or below all CAM reporting limits/lower limits of quantitation specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	TUFTS STREET	**Lab Number:**	L2582287
Project Number:	045163	**Report Date:**	12/30/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	TUFTS STREET	**Lab Number:**	L2582287
Project Number:	045163	**Report Date:**	12/30/25

Case Narrative (continued)

MCP Related Narratives

Canisters were released from the laboratory on December 17, 2025. The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

In reference to questions E b/I:

All samples were analyzed for a subset of the MCP compounds per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Jennifer Jerome

Title: Technical Director/Representative Date: 12/30/25

QC OUTLIER SUMMARY REPORT

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582287
Report Date: 12/30/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment

There are no QC Outliers associated with this report.

AIR

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582287
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582287-01
Client ID: 045163-93FRAN-B
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 07:35
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 21:15
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.041	0.020	--	0.278	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	94		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	100		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582287
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582287-02
Client ID: 045163-91FRAN-1
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 07:40
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 21:47
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.098	0.020	--	0.665	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	92		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	98		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582287
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582287-03
Client ID: 045163-93FRAN-1
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 07:50
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 22:19
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.034	0.020	--	0.231	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	98		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582287
Report Date: 12/30/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 16:25

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab for sample(s): 01-03 Batch: WG2159780-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582287
Report Date: 12/30/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-03 Batch: WG2159780-3								
Vinyl chloride	85		-		70-130	-		
1,1-Dichloroethene	86		-		70-130	-		
trans-1,2-Dichloroethene	89		-		70-130	-		
1,1-Dichloroethane	82		-		70-130	-		
cis-1,2-Dichloroethene	91		-		70-130	-		
1,1,1-Trichloroethane	126		-		70-130	-		
Trichloroethene	107		-		70-130	-		
1,1,2-Trichloroethane	107		-		70-130	-		
Tetrachloroethene	99		-		70-130	-		
1,1,2,2-Tetrachloroethane	97		-		70-130	-		

Project Name: TUFTS STREET

Project Number: 045163

Lab Number: L2582287

Report Date: 12/30/25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2582287-01	045163-93FRAN-B	02872	Flow 5	12/17/25	548827		-	-	-	Pass	3.0	3.1	3
L2582287-01	045163-93FRAN-B	5661	6.0L TO Can	12/17/25	548827	L2579530-09	Pass	-28.9	-9.1	-	-	-	-
L2582287-02	045163-91FRAN-1	02940	Flow 5	12/17/25	548827		-	-	-	Pass	3.1	3.3	6
L2582287-02	045163-91FRAN-1	5240	6.0L Can	12/17/25	548827	L2579530-09	Pass	-28.9	-8.3	-	-	-	-
L2582287-03	045163-93FRAN-1	0181	Flow 5	12/17/25	548827		-	-	-	Pass	3.0	3.2	6
L2582287-03	045163-93FRAN-1	2919	6.0L Can	12/17/25	548827	L2579530-09	Pass	-28.8	-7.3	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-09
Client ID: CAN 3345 SHELF 98
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/14/25 03:21
Analyst: ONG

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-09
Client ID: CAN 3345 SHELF 98
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-09
Client ID: CAN 3345 SHELF 98
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-09
Client ID: CAN 3345 SHELF 98
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2579530

Project Number: CANISTER QC BAT **Report Date:** 12/30/25

Air Canister Certification Results

Lab ID: L2579530-09
Client ID: CAN 3345 SHELF 98
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	98		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-09
Client ID: CAN 3345 SHELF 98
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/14/25 03:21
Analyst: ONG

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-09
Client ID: CAN 3345 SHELF 98
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-09
Client ID: CAN 3345 SHELF 98
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	92		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582287
Report Date: 12/30/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2582287-01A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2582287-02A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2582287-03A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name: TUFTS STREET **Lab Number:** L2582287

Project Number: 045163 **Report Date:** 12/30/25

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2582287
Project Number:	045163	**Report Date:**	12/30/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2582287
Project Number:	045163	**Report Date:**	12/30/25

Data Qualifiers

ND	- Not detected at the reporting limit (RL) for the sample.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
S	- Analytical results are from modified screening analysis.
V	- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
Z	- The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582287
Report Date: 12/30/25

REFERENCES

101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

ENV-FORM-WES2-0065 v01 Certificate/Approval Program Summary

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

ENV-FORM-WES2-0065 v01 Certificate/Approval Program Summary

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY kY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, CA 3117, CO MA00030, CT PH-0825, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MD 350, MA M-MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, UT MA00030, VT VT-0015, VA 460194, WA C954.

Mansfield Air Lab Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

ALPHA ANALYTICAL — CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 12/22/25

ALPHA Job #: L2582287

Client Information

Client: GEI Consultants Inc.
Address: 100 Quannapowitt Parkway
Wakefield, MA 01880
Phone: 781-721-4000
Fax:
Email: labdata@geiconsultants.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Tufts Street
Project Location: Somerville, MA
Project #: 045163
Project Manager: Chris Coner
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☒

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH (Subset Non-petroleum HCs ☐)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
82287-01	045163-93FRAN-B	12/19/25	7:35	7:35	-29.98	-8.74	AA	NMT	6 L	5661	02872	X					See attached list of analytes
-02	045163-91FRAN-1	12/19/25	7:40	7:40	-30.12	-8.51	AA	NMT	6 L	5240	02940	X					
-03	045163-93FRAN-1	12/19/25	7:50	7:50	-29.87	-7.66	AA	NMT	6 L	2919	0181	X					

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time
NT	12/19/25 14:00	GEI Fieldroom	12/19/25 14:02
GEI Field Room	12/22/25 09:10	[signature]	12/22/25 09:10
[signature]	12/22/25 09:10	[signature]	12-22-25 09:10
[signature]	12-22-25 12:10	[signature]	12/22/25 1450
[signature]	12/22/25 1708	[signature]	12/22/25 1908

Form No: 101-02 Rev: (25-Sep-15)

Indoor Air Sampling Analyte List

- 1,1-Dichloroethane
- 1,1-Dichloroethylene
- trans-1,2-Dichloroethylene
- cis-1,2-Dichloroethylene
- 1,1,1-Trichloroethane
- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloroethane
- Tetrachloroethylene
- Trichloroethylene
- Vinyl Chloride

Sample Delivery Group Summary

Pace Job Number : L2582287

Account Name : GEI Consultants
Project Number : 045163
Project Name : TUFTS STREET

Received : 22-DEC-2025
Reviewer : Christopher J Anderson

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Present/Intact/NA			

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**YES**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NA**

ANALYTICAL REPORT

Lab Number:	L2582290
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	TUFTS STREET
Project Number:	045163
Report Date:	12/30/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NH ELAP (2249).

120 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.pacelabs.com

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582290
Report Date: 12/30/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2582290-01	045163-19MORT-1	AIR	SOMERVILLE, MA	12/19/25 07:05	12/22/25
L2582290-02	045163-19MORT-B	AIR	SOMERVILLE, MA	12/19/25 07:10	12/22/25

Project Name: TUFTS STREET **Lab Number:** L2582290

Project Number: 045163 **Report Date:** 12/30/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E 1.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E 2.	PFAS Only: Were aqueous samples extracted without filtering?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits/lower limits of quantitation at or below all CAM reporting limits/lower limits of quantitation specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	TUFTS STREET	**Lab Number:**	L2582290
Project Number:	045163	**Report Date:**	12/30/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	TUFTS STREET	**Lab Number:**	L2582290
Project Number:	045163	**Report Date:**	12/30/25

Case Narrative (continued)

MCP Related Narratives

Canisters were released from the laboratory on December 16, 2025. The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

In reference to questions E b/I:

All samples were analyzed for a subset of the MCP compounds per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Jennifer Jerome

Title: Technical Director/Representative Date: 12/30/25

QC OUTLIER SUMMARY REPORT

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582290
Report Date: 12/30/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment

There are no QC Outliers associated with this report.

AIR

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582290
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582290-01
Client ID: 045163-19MORT-1
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 07:05
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 22:53
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	92		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	97		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582290
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582290-02
Client ID: 045163-19MORT-B
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 07:10
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 23:27
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	96		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582290
Report Date: 12/30/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 16:25

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab for sample(s): 01-02 Batch: WG2159780-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582290
Report Date: 12/30/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-02 Batch: WG2159780-3								
Vinyl chloride	85		-		70-130	-		
1,1-Dichloroethene	86		-		70-130	-		
trans-1,2-Dichloroethene	89		-		70-130	-		
1,1-Dichloroethane	82		-		70-130	-		
cis-1,2-Dichloroethene	91		-		70-130	-		
1,1,1-Trichloroethane	126		-		70-130	-		
Trichloroethene	107		-		70-130	-		
1,1,2-Trichloroethane	107		-		70-130	-		
Tetrachloroethene	99		-		70-130	-		
1,1,2,2-Tetrachloroethane	97		-		70-130	-		

Project Name: TUFTS STREET

Project Number: 045163

Lab Number: L2582290

Report Date: 12/30/25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2582290-01	045163-19MORT-1	02627	Flow 5	12/16/25	549316		-	-	-	Pass	2.9	2.8	4
L2582290-01	045163-19MORT-1	5514	6.0L TO Can	12/16/25	549316	L2578305-03	Pass	-29.5	-11.7	-	-	-	-
L2582290-02	045163-19MORT-B	02044	Flow 5	12/16/25	549316		-	-	-	Pass	3.1	3.0	3
L2582290-02	045163-19MORT-B	2695	6.0L Can	12/16/25	549316	L2578305-03	Pass	-29.5	-12.3	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2578305
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2578305-03
Client ID: CAN 3393 SHELF 137
Sample Location:

Date Collected: 12/10/25 09:55
Date Received: 12/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/10/25 23:24
Analyst: ONG

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2578305
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2578305-03
Client ID: CAN 3393 SHELF 137
Sample Location:

Date Collected: 12/10/25 09:55
Date Received: 12/10/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2578305
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2578305-03
Client ID: CAN 3393 SHELF 137
Sample Location:

Date Collected: 12/10/25 09:55
Date Received: 12/10/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2578305
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2578305-03
Client ID: CAN 3393 SHELF 137
Sample Location:

Date Collected: 12/10/25 09:55
Date Received: 12/10/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2578305

Project Number: CANISTER QC BAT **Report Date:** 12/30/25

Air Canister Certification Results

Lab ID: L2578305-03
Client ID: CAN 3393 SHELF 137
Sample Location:

Date Collected: 12/10/25 09:55
Date Received: 12/10/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	101		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2578305
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2578305-03
Client ID: CAN 3393 SHELF 137
Sample Location:

Date Collected: 12/10/25 09:55
Date Received: 12/10/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/10/25 23:24
Analyst: ONG

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2578305
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2578305-03
Client ID: CAN 3393 SHELF 137
Sample Location:

Date Collected: 12/10/25 09:55
Date Received: 12/10/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2578305
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2578305-03
Client ID: CAN 3393 SHELF 137
Sample Location:

Date Collected: 12/10/25 09:55
Date Received: 12/10/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	96		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582290
Report Date: 12/30/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2582290-01A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2582290-02A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name:	TUFTS STREET	**Lab Number:**	L2582290
Project Number:	045163	**Report Date:**	12/30/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2582290
Project Number:	045163	**Report Date:**	12/30/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2582290
Project Number:	045163	**Report Date:**	12/30/25

Data Qualifiers

ND	- Not detected at the reporting limit (RL) for the sample.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
S	- Analytical results are from modified screening analysis.
V	- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
Z	- The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582290
Report Date: 12/30/25

REFERENCES

101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

ENV-FORM-WES2-0065 v01 Certificate/Approval Program Summary

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

ENV-FORM-WES2-0065 v01 Certificate/Approval Program Summary

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY kY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, CA 3117, CO MA00030, CT PH-0825, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MD 350, MA M-MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, UT MA00030, VT VT-0015, VA 460194, WA C954.

Mansfield Air Lab Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

Pace ANALYTICAL SERVICES

120 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 12/22/25

Pace® Job #: L2582290

Client Information

Client: GEI Consultants Inc
Address: 100 Quannapowitt Pkwy
Wakefield, MA 01880
Phone: 781-721-4000
Fax:
Email: labdata@geiconsultants.com

☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Tufts Street
Project Location: Somerville, MA
Project #: 045163
Project Manager: Chris Coner
Pace® Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☑ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

PACE Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH (Subject Non-Detection HCs ☐)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
82290-01	045163-19MORT-1	12/19/25	7:05	7:05	-30.62	-12.00	AA	NMT	6L	5514	02627	X					See attached list of analytes 1
-02	045163-19MORT-B	12/19/25	7:10	7:10	-30.64	-12.92	AA	NMT	6L	2695	02044	X					

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambi-guities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
NT	12/19/25, 14:00	GEI Fieldroom	12/19/25, 14:00
GEI Fieldroom	12/22/25 0910		12/22/25, 0910
	12/22/25 0910	PACE	12-22-25 0910
PACE	12-22-25 1220	pas	12/22/25 1456 pas 12/22/25 1708

(25-Sep-15)

Indoor Air Sampling Analyte List

- 1,1-Dichloroethane
- 1,1-Dichloroethylene
- trans-1,2-Dichloroethylene
- cis-1,2-Dichloroethylene
- 1,1,1-Trichloroethane
- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloroethane
- Tetrachloroethylene
- Trichloroethylene
- Vinyl Chloride

Sample Delivery Group Summary

Pace Job Number : L2582290

Account Name : GEI Consultants
Project Number : 045163
Project Name : TUFTS STREET

Received : 22-DEC-2025
Reviewer : Holly Carroll

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Present/Intact/NA			

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**YES**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NA**

ANALYTICAL REPORT

Lab Number:	L2582291
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	TUFTS STREET
Project Number:	045163
Report Date:	12/30/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NH ELAP (2249).

120 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.pacelabs.com

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582291
Report Date: 12/30/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2582291-01	045163-11MORT-B-UNFIN	AIR	SOMERVILLE, MA	12/19/25 11:40	12/22/25
L2582291-02	045163-11MORT-B-FIN	AIR	SOMERVILLE, MA	12/19/25 11:45	12/22/25
L2582291-03	045163-11MORT-F1	AIR	SOMERVILLE, MA	12/19/25 11:50	12/22/25
L2582291-04	045163-11MORT-SV1	SOIL_VAPOR	SOMERVILLE, MA	12/19/25 13:00	12/22/25
L2582291-05	045163-11MORT-SV2	SOIL_VAPOR	SOMERVILLE, MA	12/19/25 13:05	12/22/25

Project Name: TUFTS STREET **Lab Number:** L2582291

Project Number: 045163 **Report Date:** 12/30/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E 1.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E 2.	PFAS Only: Were aqueous samples extracted without filtering?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits/lower limits of quantitation at or below all CAM reporting limits/lower limits of quantitation specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	TUFTS STREET	**Lab Number:**	L2582291
Project Number:	045163	**Report Date:**	12/30/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	TUFTS STREET	**Lab Number:**	L2582291
Project Number:	045163	**Report Date:**	12/30/25

Case Narrative (continued)

MCP Related Narratives

Canisters were released from the laboratory on December 17, 2025. The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

In reference to questions E b/I:

All samples were analyzed for a subset of the MCP compounds per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Jennifer Jerome

Title: Technical Director/Representative Date: 12/30/25

QC OUTLIER SUMMARY REPORT

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582291
Report Date: 12/30/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment

There are no QC Outliers associated with this report.

AIR

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582291
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582291-01
Client ID: 045163-11MORT-B-UNFIN
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 11:40
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 19:04
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	95		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	99		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582291
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582291-02
Client ID: 045163-11MORT-B-FIN
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 11:45
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 19:37
Analyst: TPH

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.138	0.020	--	0.742	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.079	0.020	--	0.536	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	99		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582291
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582291-03
Client ID: 045163-11MORT-F1
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 11:50
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 20:09
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.406	0.020	--	2.18	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	94		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	99		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582291
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582291-04
Client ID: 045163-11MORT-SV1
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 13:00
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/30/25 04:19
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.073	0.020	--	0.495	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	92		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	98		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582291
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582291-05
Client ID: 045163-11MORT-SV2
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 13:05
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/30/25 04:51
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.047	0.020	--	0.253	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.935	0.020	--	6.34	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	104		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582291
Report Date: 12/30/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 16:25

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab for sample(s): 01-05 Batch: WG2159780-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582291
Report Date: 12/30/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-05 Batch: WG2159780-3								
Vinyl chloride	85		-		70-130	-		
1,1-Dichloroethene	86		-		70-130	-		
trans-1,2-Dichloroethene	89		-		70-130	-		
1,1-Dichloroethane	82		-		70-130	-		
cis-1,2-Dichloroethene	91		-		70-130	-		
1,1,1-Trichloroethane	126		-		70-130	-		
Trichloroethene	107		-		70-130	-		
1,1,2-Trichloroethane	107		-		70-130	-		
Tetrachloroethene	99		-		70-130	-		
1,1,2,2-Tetrachloroethane	97		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582291
Report Date: 12/30/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-05 QC Batch ID: WG2159780-5 QC Sample: L2582291-03 Client ID: 045163-11MORT-F1						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Trichloroethene	0.406	0.402	ppbV	1		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Tetrachloroethene	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25

Project Name: TUFTS STREET

Project Number: 045163

Lab Number: L2582291

Report Date: 12/30/25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2582291-01	045163-11MORT-B-UNFIN	0410	Flow 5	12/17/25	548827		-	-	-	Pass	3.0	3.2	6
L2582291-01	045163-11MORT-B-UNFIN	3267	6.0L Can	12/17/25	548827	L2579530-10	Pass	-28.9	-12.1	-	-	-	-
L2582291-02	045163-11MORT-B-FIN	0035	Flow 5	12/17/25	548827		-	-	-	Pass	3.0	3.2	6
L2582291-02	045163-11MORT-B-FIN	5857	6.0L TO Can	12/17/25	548827	L2579145-08	Pass	-29.0	-7.8	-	-	-	-
L2582291-03	045163-11MORT-F1	01251	Flow 5	12/17/25	548827		-	-	-	Pass	3.0	3.1	3
L2582291-03	045163-11MORT-F1	2835	6.0L Can	12/17/25	548827	L2579530-10	Pass	-28.9	-9.4	-	-	-	-
L2582291-04	045163-11MORT-SV1	02966	Flow 2	12/17/25	548827		-	-	-	Pass	36.1	41.0	13
L2582291-04	045163-11MORT-SV1	4419	2.7L Can	12/17/25	548827	L2579145-04	Pass	-29.3	-4.2	-	-	-	-
L2582291-05	045163-11MORT-SV2	0625	Flow 2	12/17/25	548827		-	-	-	Pass	36.0	38.3	6
L2582291-05	045163-11MORT-SV2	3110	2.7L Can	12/17/25	548827	L2579145-04	Pass	-29.4	-5.8	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-04
Client ID: CAN 3247 SHELF 46
Sample Location:

Date Collected: 12/11/25 16:25
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/13/25 00:37
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-04
Client ID: CAN 3247 SHELF 46
Sample Location:

Date Collected: 12/11/25 16:25
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-04
Client ID: CAN 3247 SHELF 46
Sample Location:

Date Collected: 12/11/25 16:25
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-04
Client ID: CAN 3247 SHELF 46
Sample Location:

Date Collected: 12/11/25 16:25
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2579145

Project Number: CANISTER QC BAT **Report Date:** 12/30/25

Air Canister Certification Results

Lab ID: L2579145-04
Client ID: CAN 3247 SHELF 46
Sample Location:

Date Collected: 12/11/25 16:25
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	90		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-04
Client ID: CAN 3247 SHELF 46
Sample Location:

Date Collected: 12/11/25 16:25
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/13/25 00:37
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2579145

Project Number: CANISTER QC BAT **Report Date:** 12/30/25

Air Canister Certification Results

Lab ID: L2579145-04
Client ID: CAN 3247 SHELF 46
Sample Location:

Date Collected: 12/11/25 16:25
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2579145

Project Number: CANISTER QC BAT **Report Date:** 12/30/25

Air Canister Certification Results

Lab ID: L2579145-04
Client ID: CAN 3247 SHELF 46
Sample Location:

Date Collected: 12/11/25 16:25
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	67		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	76		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-08
Client ID: CAN 5272 SHELF 94
Sample Location:

Date Collected: 12/12/25 11:45
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/13/25 03:11
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-08
Client ID: CAN 5272 SHELF 94
Sample Location:

Date Collected: 12/12/25 11:45
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-08
Client ID: CAN 5272 SHELF 94
Sample Location:

Date Collected: 12/12/25 11:45
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-08
Client ID: CAN 5272 SHELF 94
Sample Location:

Date Collected: 12/12/25 11:45
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2579145

Project Number: CANISTER QC BAT **Report Date:** 12/30/25

Air Canister Certification Results

Lab ID: L2579145-08
Client ID: CAN 5272 SHELF 94
Sample Location:

Date Collected: 12/12/25 11:45
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	85		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	87		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-08
Client ID: CAN 5272 SHELF 94
Sample Location:

Date Collected: 12/12/25 11:45
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/13/25 03:11
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-08
Client ID: CAN 5272 SHELF 94
Sample Location:

Date Collected: 12/12/25 11:45
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-08
Client ID: CAN 5272 SHELF 94
Sample Location:

Date Collected: 12/12/25 11:45
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	65		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	73		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-10
Client ID: CAN 3916 SHELF 99
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/14/25 04:01
Analyst: ONG

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-10
Client ID: CAN 3916 SHELF 99
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-10
Client ID: CAN 3916 SHELF 99
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-10
Client ID: CAN 3916 SHELF 99
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2579530

Project Number: CANISTER QC BAT **Report Date:** 12/30/25

Air Canister Certification Results

Lab ID: L2579530-10
Client ID: CAN 3916 SHELF 99
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	100		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-10
Client ID: CAN 3916 SHELF 99
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/14/25 04:01
Analyst: ONG

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-10
Client ID: CAN 3916 SHELF 99
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-10
Client ID: CAN 3916 SHELF 99
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	95		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582291
Report Date: 12/30/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2582291-01A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2582291-02A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2582291-03A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2582291-04A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2582291-05A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name:	TUFTS STREET	**Lab Number:**	L2582291
Project Number:	045163	**Report Date:**	12/30/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2582291
Project Number:	045163	**Report Date:**	12/30/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2582291
Project Number:	045163	**Report Date:**	12/30/25

Data Qualifiers

ND	- Not detected at the reporting limit (RL) for the sample.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
S	- Analytical results are from modified screening analysis.
V	- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
Z	- The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582291
Report Date: 12/30/25

REFERENCES

101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

ENV-FORM-WES2-0065 v01 Certificate/Approval Program Summary

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

ENV-FORM-WES2-0065 v01 Certificate/Approval Program Summary

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY kY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, CA 3117, CO MA00030, CT PH-0825, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MD 350, MA M-MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, UT MA00030, VT VT-0015, VA 460194, WA C954.

Mansfield Air Lab Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 12/22/25

ALPHA Job #: L2582291

Client Information

Client: GEI Consultants Inc.
Address: 100 Quannapowitt Parkway
Wakefield, MA 01880
Phone: 781-721-4000
Fax:
Email: labdata@geiconsultants.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Tufts Street
Project Location: Somerville, MA
Project #: 045163
Project Manager: Chris Coner
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☒

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH (Subset: Non-petroleum HCs ☐)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
82291-01	045163-11MORT-B-Unfin	12/19/25	11:40	11:40	-30.14	-13.11	AA	NMT	6 L	3267	0410	X					
-02	045163-11MORT-B-Fin	12/19/25	11:45	11:45	-30.03	-8.40	AA	NMT	6 L	5857	0035	X					
-03	045163-11MORT-F1	12/19/25	11:50	11:50	-30.24	-8.99	AA	NMT	6 L	2835	01251	X					
-04	045163-11-MORT-SV1	12/19/25	12:00	13:00	-29.09	-4.39	SV	NMT	2.7 L	4419	02966	X					
-05	045163-11-MORT-SV2	12/19/25	12:05	13:05	-29.28	-6.27	SV	NMT	2.7 L	3110	0625	X					

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
NT	12/19/25 14:00	GEI Fieldroom	12/19/25, 14:00
GEI Fieldroom	12/22/25 09:10	[illegible]	12/22/25 09:10
[illegible]	12/22/25 09:10	[illegible] PACE	12/22/25 09:10
[illegible] PACE	12/22/25 1220	[illegible] PAS	12/22/25 1450
[illegible] PAS	12/22/25 1704	[illegible]	12/22/25

Form No: 101-02 Rev: (25-Sep-15)

Indoor Air Sampling Analyte List

- 1,1-Dichloroethane
- 1,1-Dichloroethylene
- trans-1,2-Dichloroethylene
- cis-1,2-Dichloroethylene
- 1,1,1-Trichloroethane
- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloroethane
- Tetrachloroethylene
- Trichloroethylene
- Vinyl Chloride

Sample Delivery Group Summary

Pace Job Number : L2582291

Account Name : GEI Consultants
Project Number : 045163
Project Name : TUFTS STREET

Received : 22-DEC-2025
Reviewer : Christopher J Anderson

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Present/Intact/NA			

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**YES**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NA**

ANALYTICAL REPORT

Lab Number:	L2582293
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	TUFTS STREET
Project Number:	045163
Report Date:	12/30/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NH ELAP (2249).

120 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.pacelabs.com

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582293
Report Date: 12/30/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2582293-01	045163-32KNOW-B	AIR	SOMERVILLE, MA	12/19/25 11:05	12/22/25
L2582293-02	045163-32KNOW-1	AIR	SOMERVILLE, MA	12/19/25 11:10	12/22/25

Project Name: TUFTS STREET **Lab Number:** L2582293

Project Number: 045163 **Report Date:** 12/30/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E 1.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E 2.	PFAS Only: Were aqueous samples extracted without filtering?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits/lower limits of quantitation at or below all CAM reporting limits/lower limits of quantitation specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	TUFTS STREET	**Lab Number:**	L2582293
Project Number:	045163	**Report Date:**	12/30/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582293
Report Date: 12/30/25

Case Narrative (continued)

MCP Related Narratives

Canisters were released from the laboratory on December 17, 2025. The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

In reference to questions E b/I:

All samples were analyzed for a subset of the MCP compounds per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Jennifer Jerome

Title: Technical Director/Representative Date: 12/30/25

QC OUTLIER SUMMARY REPORT

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582293
Report Date: 12/30/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment

There are no QC Outliers associated with this report.

AIR

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582293
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582293-01
Client ID: 045163-32KNOW-B
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 11:05
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/30/25 00:00
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.020	0.020	--	0.136	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	94		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582293
Report Date: 12/30/25

SAMPLE RESULTS

Lab ID: L2582293-02
Client ID: 045163-32KNOW-1
Sample Location: SOMERVILLE, MA

Date Collected: 12/19/25 11:10
Date Received: 12/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 12/30/25 00:32
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	97		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582293
Report Date: 12/30/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15-SIM
Analytical Date: 12/29/25 16:25

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab for sample(s): 01-02 Batch: WG2159780-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582293
Report Date: 12/30/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-02 Batch: WG2159780-3								
Vinyl chloride	85		-		70-130	-		
1,1-Dichloroethene	86		-		70-130	-		
trans-1,2-Dichloroethene	89		-		70-130	-		
1,1-Dichloroethane	82		-		70-130	-		
cis-1,2-Dichloroethene	91		-		70-130	-		
1,1,1-Trichloroethane	126		-		70-130	-		
Trichloroethene	107		-		70-130	-		
1,1,2-Trichloroethane	107		-		70-130	-		
Tetrachloroethene	99		-		70-130	-		
1,1,2,2-Tetrachloroethane	97		-		70-130	-		

Project Name: TUFTS STREET

Project Number: 045163

Lab Number: L2582293

Report Date: 12/30/25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2582293-01	045163-32KNOW-B	02805	Flow 5	12/17/25	548827		-	-	-	Pass	3.0	3.3	10
L2582293-01	045163-32KNOW-B	2834	6.0L Can	12/17/25	548827	L2579145-08	Pass	-28.8	-9.5	-	-	-	-
L2582293-02	045163-32KNOW-1	02904	Flow 5	12/17/25	548827		-	-	-	Pass	3.1	3.2	3
L2582293-02	045163-32KNOW-1	951	6.0L Can	12/17/25	548827	L2579530-09	Pass	-28.9	-9.8	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-08
Client ID: CAN 5272 SHELF 94
Sample Location:

Date Collected: 12/12/25 11:45
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/13/25 03:11
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-08
Client ID: CAN 5272 SHELF 94
Sample Location:

Date Collected: 12/12/25 11:45
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-08
Client ID: CAN 5272 SHELF 94
Sample Location:

Date Collected: 12/12/25 11:45
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-08
Client ID: CAN 5272 SHELF 94
Sample Location:

Date Collected: 12/12/25 11:45
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2579145

Project Number: CANISTER QC BAT **Report Date:** 12/30/25

Air Canister Certification Results

Lab ID: L2579145-08
Client ID: CAN 5272 SHELF 94
Sample Location:

Date Collected: 12/12/25 11:45
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	85		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	87		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-08
Client ID: CAN 5272 SHELF 94
Sample Location:

Date Collected: 12/12/25 11:45
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/13/25 03:11
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-08
Client ID: CAN 5272 SHELF 94
Sample Location:

Date Collected: 12/12/25 11:45
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579145
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579145-08
Client ID: CAN 5272 SHELF 94
Sample Location:

Date Collected: 12/12/25 11:45
Date Received: 12/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	65		60-140
bromochloromethane	88		60-140
chlorobenzene-d5	73		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-09
Client ID: CAN 3345 SHELF 98
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 12/14/25 03:21
Analyst: ONG

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-09
Client ID: CAN 3345 SHELF 98
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2579530

Project Number: CANISTER QC BAT **Report Date:** 12/30/25

Air Canister Certification Results

Lab ID: L2579530-09
Client ID: CAN 3345 SHELF 98
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-09
Client ID: CAN 3345 SHELF 98
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2579530

Project Number: CANISTER QC BAT **Report Date:** 12/30/25

Air Canister Certification Results

Lab ID: L2579530-09
Client ID: CAN 3345 SHELF 98
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	98		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-09
Client ID: CAN 3345 SHELF 98
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 12/14/25 03:21
Analyst: ONG

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2579530
Report Date: 12/30/25

Air Canister Certification Results

Lab ID: L2579530-09
Client ID: CAN 3345 SHELF 98
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2579530

Project Number: CANISTER QC BAT **Report Date:** 12/30/25

Air Canister Certification Results

Lab ID: L2579530-09
Client ID: CAN 3345 SHELF 98
Sample Location:

Date Collected: 12/13/25 12:45
Date Received: 12/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	92		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2582293
Report Date: 12/30/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2582293-01A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2582293-02A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name:	TUFTS STREET	**Lab Number:**	L2582293
Project Number:	045163	**Report Date:**	12/30/25

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2582293
Project Number:	045163	**Report Date:**	12/30/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2582293
Project Number:	045163	**Report Date:**	12/30/25

Data Qualifiers

ND	- Not detected at the reporting limit (RL) for the sample.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
S	- Analytical results are from modified screening analysis.
V	- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
Z	- The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2582293
Report Date: 12/30/25

REFERENCES

101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

ENV-FORM-WES2-0065 v01 Certificate/Approval Program Summary

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

ENV-FORM-WES2-0065 v01 Certificate/Approval Program Summary

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY kY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, CA 3117, CO MA00030, CT PH-0825, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MD 350, MA M-MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, UT MA00030, VT VT-0015, VA 460194, WA C954.

Mansfield Air Lab Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

ALPHA ANALYTICAL — CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 12/22/25

ALPHA Job #: L2582293

Client Information

Client: GEI Consultants Inc.
Address: 100 Quannapowitt Parkway
Wakefield, MA 01880
Phone: 781-721-4000
Fax:
Email: labdata@geiconsultants.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Tufts Street
Project Location: Somerville, MA
Project #: 045163
Project Manager: Chris Coner
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☒

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH Subject Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
82293-01	045163-32KNOW-B	12/19/25	11:05	11:05	-29.46	-9.18	AA	NMT	6 L	2834	02805	X					See attached list of analytes
-02	045163-32KNOW-1	12/19/25	11:10	11:10	-29.78	-9.28	AA	NMT	6 L	3955	01468	X					

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time
NT	12/19/25 14:00	GEI Fieldroom	12/19/25 14:00
GEI Fieldroom	12/22/25 09:10		12/22/25 09:10
	12-22-25 1220		12-22-25 0910
	12/22/25 1708		12/22/25 1450

12/22/25

Form No: 101-02 Rev: (25-Sep-15)

Indoor Air Sampling Analyte List

- 1,1-Dichloroethane
- 1,1-Dichloroethylene
- trans-1,2-Dichloroethylene
- cis-1,2-Dichloroethylene
- 1,1,1-Trichloroethane
- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloroethane
- Tetrachloroethylene
- Trichloroethylene
- Vinyl Chloride

Sample Delivery Group Summary

Pace Job Number : L2582293

Account Name : GEI Consultants
Project Number : 045163
Project Name : TUFTS STREET

Received : 22-DEC-2025
Reviewer : Christopher J Anderson

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Present/Intact/NA			

Condition Information

1) All samples on COC received? **YES**

2) Extra samples received? **NO**

3) Are there any sample container discrepancies? **NO**

4) Are there any discrepancies between COC & sample labels? **YES**
L2582293-02: CAN ID #3955 FC ID #01468 vs. CAN ID #951 FC ID #02904

5) Are samples in appropriate containers for requested analysis? **YES**

6) Are samples properly preserved for requested analysis? **YES**

7) Are samples within holding time for requested analysis? **YES**

8) All sampling equipment returned? **YES**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client? **NA**

Appendix E Waste Manifests

(8)

25584

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
MAC 300 011 277	1	(800) 899-4672	019083326 FLE

5. Generator's Name and Mailing Address 50 TUFTS STREET SITE
68 JONSPIN ROAD
WILMINGTON, MA 01887
Generator's Phone: (978) 658-8888

Generator's Site Address (if different than mailing address)
50 TUFTS STREET
SOMERVILLE, MA 02143

AFFIX TO RIGHT SIDE OF ALL HAZARDOUS MATERIALS BILLS AT LINE SO TAB WILL STICK OUT
P/N LALP-R0005 800-997-6120

6. Transporter 1 Company Name: EQ NORTHEAST, INC. — U.S. EPA ID Number: MAD 084 814 136

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: CYCLE CHEM, INC.
550 INDUSTRIAL DRIVE
LEWISBERRY, PA 17339
Facility's Phone: (717) 938-4700
U.S. EPA ID Number: PAD 067 098 822

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1NA3082, Hazardous waste, liquid, n.o.s., (contains Tetrachloroethylene), 9, PGIII, ERG #171	05	DM	275	G	D039	U210	
X	2NA3077, Hazardous waste, solid, n.o.s., (Tetrachloroethylene, soil), 9, PGIII, ERG #171	03	DM	800	P	D039	U210	
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. 1121676-WR3 / PCE source ground water 2. 1121668-ROS70 / PCE Source Soil [W:15.00.16663700]

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

GENERATOR

Generator's/Offeror's Printed/Typed Name: CATHERINE MALAGRIDA — Signature: C Malagrida — Month: 07 — Day: 02 — Year: 2025

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Timothy Croft — Signature — Month: 07 — Day: 02 — Year: 25

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141	H141		

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Kristen Pierce — Signature — Month: 07 — Day: 09 — Year: 25

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
MAC300011277	2	508-828-1005	020037125 FLE

GENERATOR

5. Generator's Name and Mailing Address
ATTN:Catherine Malagrida
Unifirst Corporation
68 Jonspin Rd
Wilmington, MA 01887
Generator's Phone: 339-221-3521

Generator's Site Address (if different than mailing address)
50 Tufts St
Somerville, MA 02129

6. Transporter 1 Company Name: Reworld Remediation Services Inc. — U.S. EPA ID Number: MAC300012903

7. Transporter 2 Company Name: Red Technologies LLC — U.S. EPA ID Number: CTR000505958

8. Designated Facility Name and Site Address
Reworld Avon TSDF
35850 Schneider Ct
Avon, OH 44011
Facility's Phone: 440-937-6348

U.S. EPA ID Number: OHD066060609

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN1897, Waste Tetrachloroethylene, 6.1, PGIII	20	DM	4000	P	U210 D039
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1.) Approval 5046249
20X55
SO274868
D311283 20X55

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: CATHERINE MALAGRIDA — Signature: C Malagrida — Month: 07 Day: 17 Year: 25

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Joseph R Kloska — Signature: — Month: 07 Day: 17 Year: 25

Transporter 2 Printed/Typed Name: Chris Madamba — Signature: Chris Madamba — Month: 07 Day: 17 Year: 25

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Joseph J Kloska — Signature: — Month: 07 Day: 24 Year: 25

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: MAC300011277

22. Page: 2

23. Manifest Tracking Number: 020037125 FLE

24. Generator's Name: Unifirst Corporation, Somerville, MA

25. Transporter 3 Company Name: Rewerld Myerstown LLC — U.S. EPA ID Number: PAR000073026

26. Transporter 4 Company Name: Maumee Express — U.S. EPA ID Number: NJD986607386

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes

Transportation Only

32. Special Handling Instructions and Additional Information

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials
Printed/Typed Name: Dennis Lynch — Signature: Dennis Lynch — Month 07 Day 22 Year 25

34. Transporter 4 Acknowledgment of Receipt of Materials
Printed/Typed Name: Joshua Chaim — Signature: [signature] — Month 7 Day 23 Year 25

DESIGNATED FACILITY

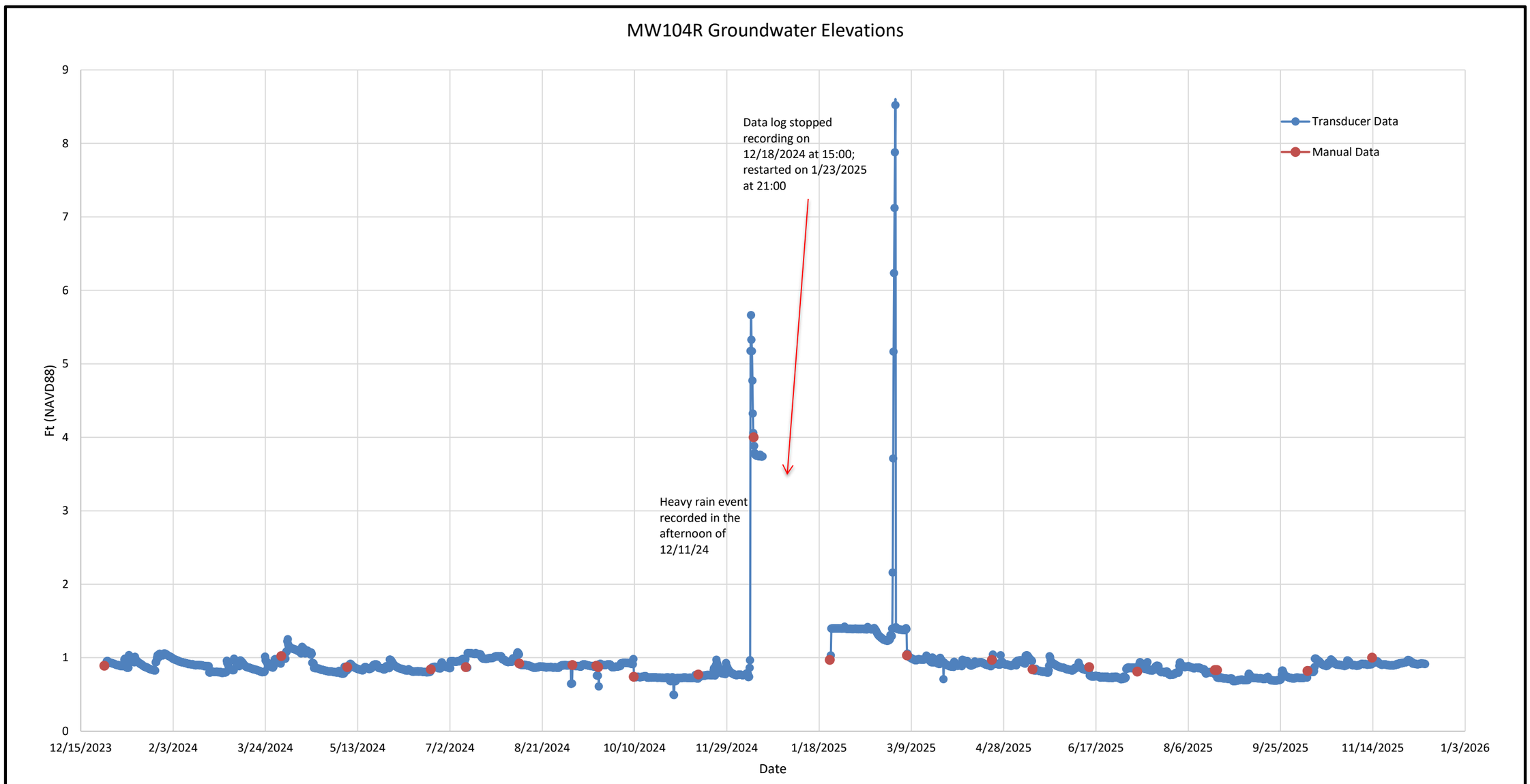
35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

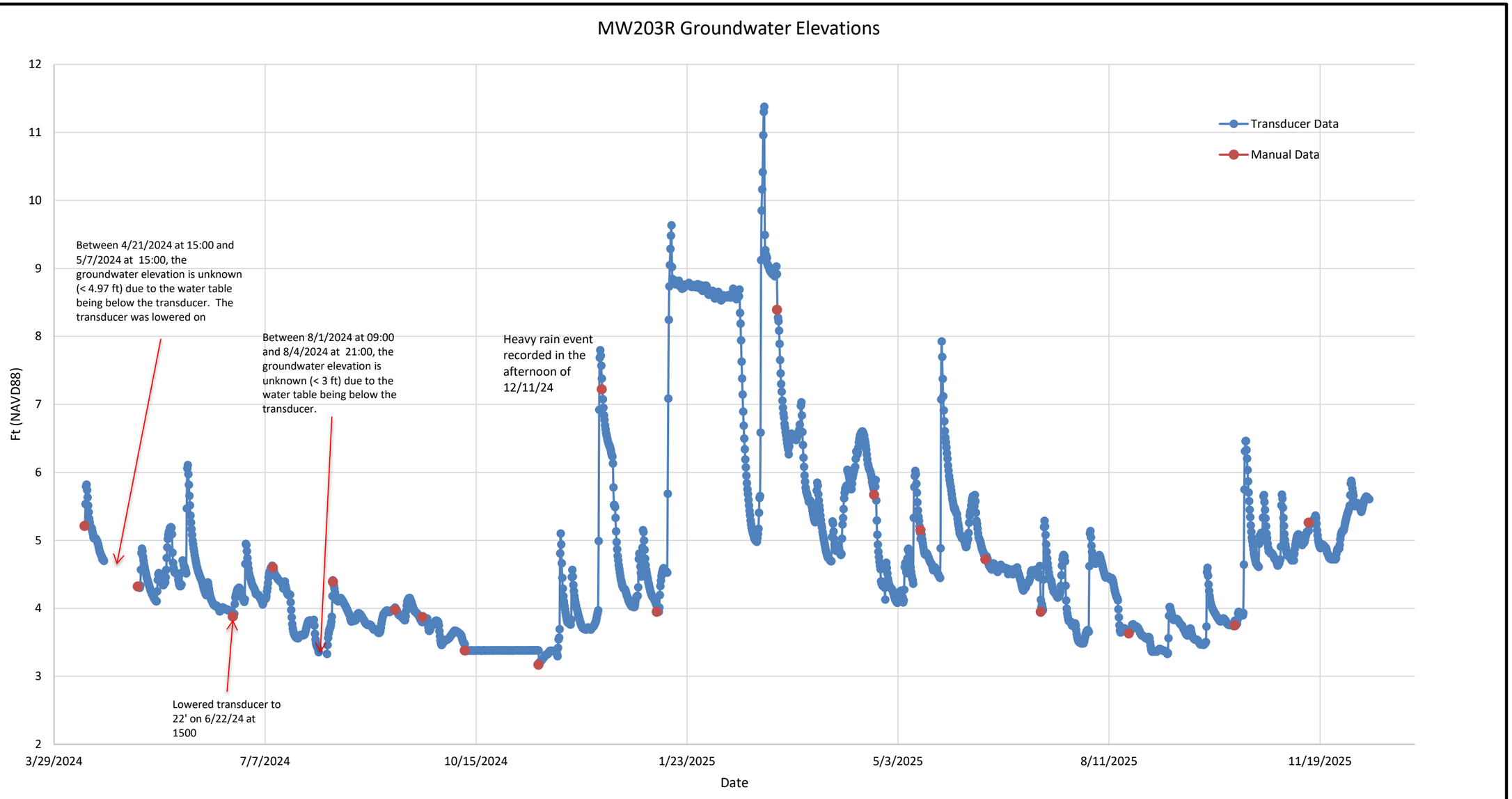
EPA Form 8700-22A (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

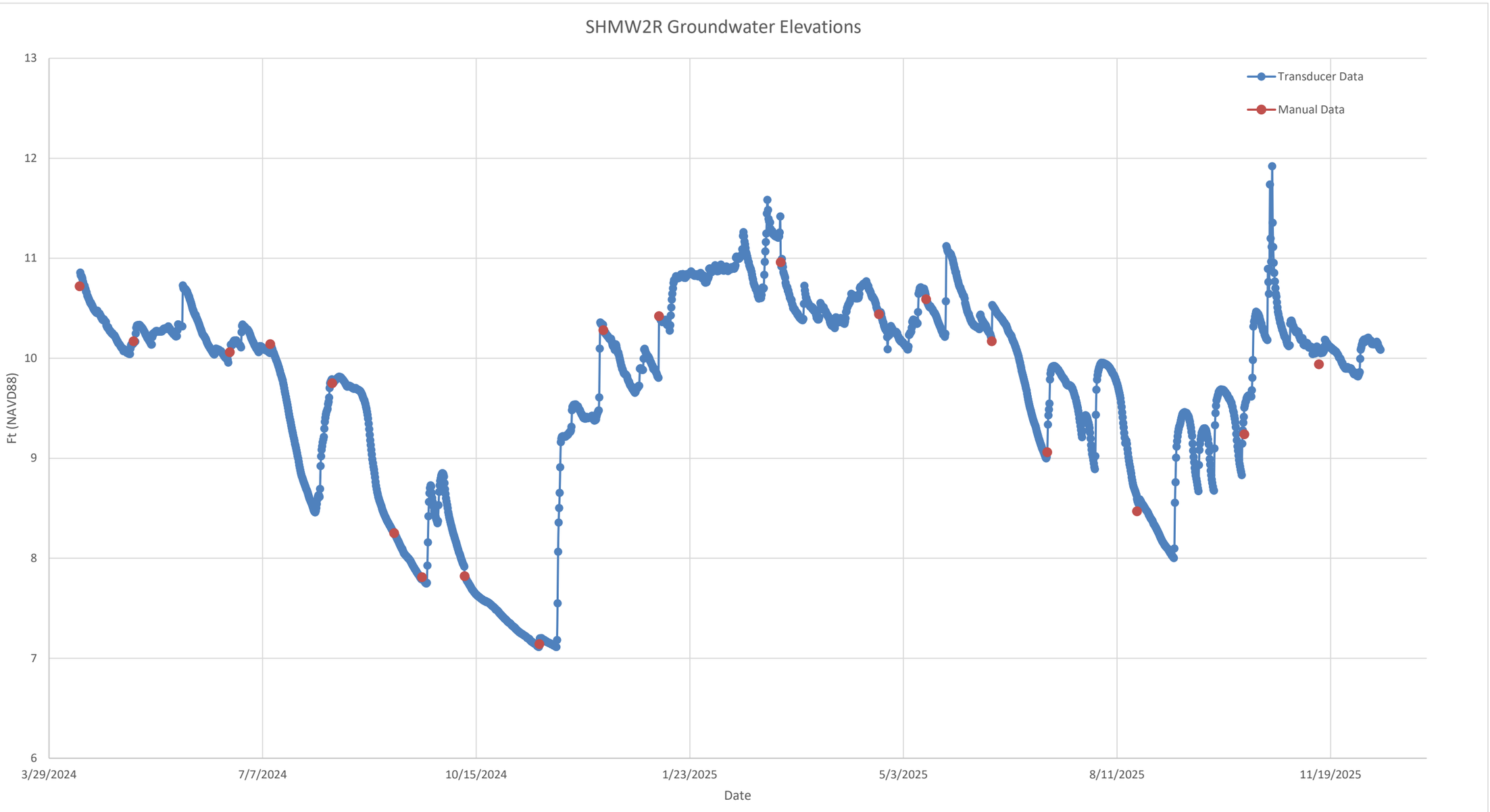
Appendix F Transducer Data Graphs



Phase V Status Report No. 29 and Remedial Monitoring Report No. 44 50 Tufts Street, Somerville, Massachusetts	GEI Consultants	MW104R Transducer Data
UniFirst Corporation Wilmington, Massachusetts	Project 04516-3	January 2026



Phase V Status Report No. 29 and Remedial Monitoring Report No. 44 50 Tufts Street, Somerville, Massachusetts	GEI Consultants	MW203R Transducer Data
UniFirst Corporation Wilmington, Massachusetts	Project 04516-3	January 2026



Phase V Status Report No. 29 and Remedial Monitoring Report No. 44 50 Tufts Street, Somerville, Massachusetts	GEI Consultants	SH-MW2R Transducer Data
UniFirst Corporation Wilmington, Massachusetts	Project 04516-3	January 2026

Appendix G Pre-Sampling Checklists and Air Sampling Checklist

SUB-SLAB MONITORING POINT INSTALLATION LOG

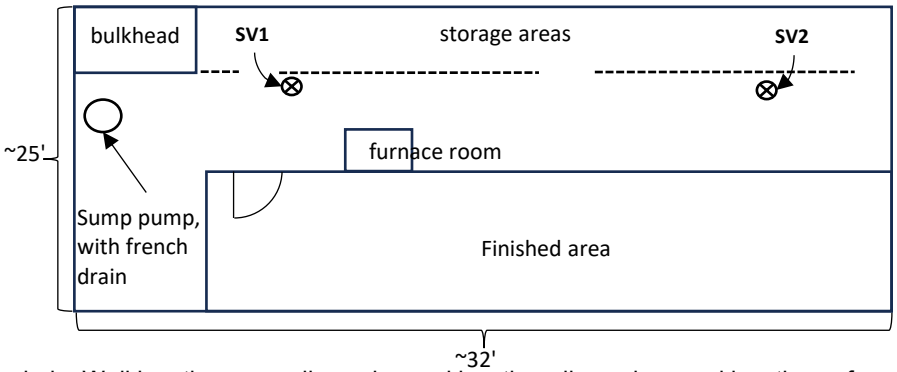
GEI Consultants

Sub-Slab Monitoring Point IDs:

SV1 & SV2

Project Name: 11 Morton St
Project Number: 045163
Address: 11 Morton St, Somerville, MA
Date: 7/16/2025
Logged By: D. Miller

Basement Sketch: (basement, in proposed closet)

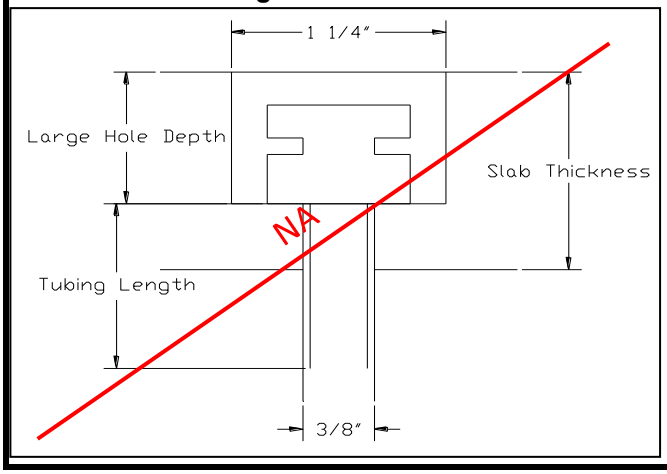


Ceiling Height: ~7'
Basement Height Above Grade: NA

Include: Wall lengths, sump dimension and location, dimensions and locations of any significant penetrations in the ground, sub-slab monitoring point locations, location of sealed vs. non-sealed walls, north arrow

Basement Sketch for Photo Log:
NA

Sub-Slab Monitoring Point Profile:



	SV1	SV2		
Slab Thickness:	3.25"	3.25"		
Tubing Length:	NA	NA		
Type of Material Under Slab:	brown sand	brown sand		
Large Hole Depth:	NA	NA		

Comments:
- installed stainless steel mini VaporPins®
- NA = not applicable

GEI Consultants

AMBIENT AIR SAMPLING CHECKLIST

Sampling Location:
11 Morton - First Floor

Sample ID: 045163-11MORT-F1

Date: 7/15/2025 - 7/16/2025
Sampling personnel: D. Miller
Summa Canister ID: 5310
Flow Regulator ID: 02983
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 10:09 (7/15/2025)
Sampling Finish Time: 10:09 (7/16/2025)

	During Sampling	
	Time	**Vacuum**
7/15/2025	10:09	-30.27
7/16/2025	10:00	-9.44
	10:09	-9.3

Did Summa canister go to ambient pressure? No
Vacuum pressure reported by Laboratory: ---

Pressure gauge reading (Pre-opening): **Flow Controller:** -30.27 in. Hg (0.00 before opening)
Pressure gauge reading (After sample collected): **Flow Controller:** -9.30 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	82	85
Barometric Pressure (in. Hg):	30.06	30.01
Prevailing Wind Direction:	SW	SW
General Weather Conditions:	mostly sunny	sunny

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	78	78
Barometric Pressure (in. Hg):	30.06	30.01

PID readings at sample location (ppmv): 0.0

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:**
Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? No **If yes, how long?**
Windows open? No **Ventilation fans?** No
Was there significant precipitation within 12 hours of (or during) the sampling event? No
Were any of the residents home during sampling? Yes **If yes, provide detail:** 2 adults, 2 children
Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:**

Air intake at ~4'10".
Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.):
- sample canister placed on kitchen island

GEI Consultants

AMBIENT AIR SAMPLING CHECKLIST

Sampling Location:
11 Morton St - Basement

Sample ID: 045163-11MORT-B

Date: 7/15/2025 - 7/16/2025
Sampling personnel: D. Miller
Summa Canister ID: 4329
Flow Regulator ID: 02441
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 10:05 (7/15/2025)
Sampling Finish Time: 10:05 (7/16/2025)

	During Sampling	
	Time	**Vacuum**
7/15/2025	10:05	-30.3
7/16/2025	9:59	-6.51
	10:05	-6.45

Did Summa canister go to ambient pressure? No
Vacuum pressure reported by Laboratory: ---

Pressure gauge reading (Pre-opening): **Flow Controller:** -30.30 in. Hg (0.00 before opening)
Pressure gauge reading (After sample collected): **Flow Controller:** -6.45 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	82	85
Barometric Pressure (in. Hg):	30.06	30.01
Prevailing Wind Direction:	SW	SW
General Weather Conditions:	mostly sunny	sunny

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	70	70
Barometric Pressure (in. Hg):	30.06	30.01

PID readings at sample location (ppmv): 0.0

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:**
Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? No **If yes, how long?**
Windows open? No **Ventilation fans?** No
Was there significant precipitation within 12 hours of (or during) the sampling event? No
Were any of the residents home during sampling? Yes **If yes, provide detail:** 2 adults, 2 children
Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:**

Air intake at ~4'10".
Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.): Laundry in basement, half is finished (collected sample in finished area)

GEI Consultants

SUB-SLAB SAMPLING CHECKLIST

Sampling Location:
11 Morton Street, SV1

Sample ID: 045163-11Mort-SV1

Date: 7/16/2025
Sampling personnel: D. Miller
Summa Canister ID: 2793
Flow Regulator ID: 01610
Sample Type / Analysis Method: TO-15
Sampling Start Time: 11:58
Sampling Finish Time: 12:58

Did Summa Canister go to ambient pressure? No

During Sampling	
Time	**Vacuum**
11:58	-30.11
12:15	-23.37
12:29	-17.41
12:43	-11.82
12:58	-5.25

Pressure gauge reading (Pre-opening): **Flow Controller:** 0.00 --> -30.11 in.Hg
Pressure gauge reading (After sample collected): **Flow Controller:** -5.25 --> 0.00 in.Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	89°F	91°F
Barometric Pressure:	29.99 in. Hg	29.98 in. Hg
Prevailing Wind Direction:	SW	SW
General Weather Conditions:	Sunny	Sunny

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** DJM
Vacuum prior to sampling (in. WC): 0.000
Ambient air concentration (ppm): 0.0
Soil gas concentration prior to sampling (ppm): 0.0
Vapor point purged for ~5 min **with a MiniRAE 3000 (500-600 cc/min) prior to sampling.**

Comments:
- SV1 installed on 7/16/2025 in unfinished portion of basement. See installation sheet for location.

GEI Consultants

SUB-SLAB SAMPLING CHECKLIST

Sampling Location:
11 Morton Street, SV2

Sample ID: 045163-11Mort-SV2

Date: 7/16/2025
Sampling personnel: D. Miller
Summa Canister ID: 139
Flow Regulator ID: 01561
Sample Type / Analysis Method: TO-15
Sampling Start Time: 11:59
Sampling Finish Time: 12:59

Did Summa Canister go to ambient pressure? No

During Sampling	
Time	**Vacuum**
11:59	-30.04
12:15	-23.51
12:30	-18.22
12:44	-12.91
12:59	-7.41

Pressure gauge reading (Pre-opening): **Flow Controller:** 0.00 --> -30.04 in.Hg
Pressure gauge reading (After sample collected): **Flow Controller:** -7.41 --> 0.00 in.Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	89°F	91°F
Barometric Pressure:	29.99 in. Hg	29.98 in. Hg
Prevailing Wind Direction:	SW	SW
General Weather Conditions:	Sunny	Sunny

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** DJM
Vacuum prior to sampling (in. WC): 0.000
Ambient air concentration (ppm): 0.0
Soil gas concentration prior to sampling (ppm): 0.0
Vapor point purged for ~5 min **with a MiniRAE 3000 (500-600 cc/min) prior to sampling.**

Comments:
- SV2 installed on 7/16/2025 in unfinished portion of basement. See installation sheet for location.

GEI Consultants

AMBIENT AIR SAMPLING CHECKLIST

Sampling Location: 11 Morton - First Floor (on bookshelf near windows)

Sample ID: 045163-11MORT-F1

Date: 8/20/2025-8/21/2025
Sampling personnel: D. Miller, J. Graff
Summa Canister ID: 2977
Flow Regulator ID: 01212
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 0917 (8/20)
Sampling Finish Time: 0917 (8/21)

	During Sampling	
	Time	Vacuum
8/20/2025	0917	-30.54
8/21/2025	0917	-7.10

Did Summa canister go to ambient pressure? No
Vacuum pressure reported by Laboratory: ---

Pressure gauge reading (Pre-opening): **Flow Controller:** -30.54 in. Hg (0.00 before opening)
Pressure gauge reading (After sample collected): **Flow Controller:** -7.10 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	65	63
Barometric Pressure (in. Hg):	30.19	30.10
Prevailing Wind Direction:	E	NE
General Weather Conditions:	Light Rain	Cloudy

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	74	74
Barometric Pressure (in. Hg):	30.19	30.07

PID readings at sample location (ppmv): NM

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:**
Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? Yes **If yes, how long?** Windows cracked ~1hr, closed during sampling
Windows open? No **Ventilation fans?** No
Was there significant precipitation within 12 hours of (or during) the sampling event? Yes
Were any of the residents home during sampling? Yes **If yes, provide detail:** 2 adults, 2 children
Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:**

Air intake at ~6'.
Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.):
- sample canister placed on book shelf

GEI Consultants

AMBIENT AIR SAMPLING CHECKLIST

Sampling Location: 11 Morton - Basement (unfinished side)

Sample ID: 045163-11MORT-B-Unfin

Date: 8/20/2025-8/21/2025
Sampling personnel: D. Miller, J. Graff
Summa Canister ID: 3288
Flow Regulator ID: 02441
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 0921 (8/20)
Sampling Finish Time: 0921 (8/21)

During Sampling		
	Time	Vacuum
8/20/2025	0921	-30.24
8/21/2025	0921	-6.76

Did Summa canister go to ambient pressure? No
Vacuum pressure reported by Laboratory: ---

Pressure gauge reading (Pre-opening): **Flow Controller:** -30.24 in. Hg (0.00 before opening)
Pressure gauge reading (After sample collected): **Flow Controller:** -6.76 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	65	63
Barometric Pressure (in. Hg):	30.19	30.10
Prevailing Wind Direction:	E	NE
General Weather Conditions:	Light Rain	Cloudy

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	74	74
Barometric Pressure (in. Hg):	30.19	30.07

PID readings at sample location (ppmv): 0.0 to 0.1

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:**
Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? Yes **If yes, how long?** Windows cracked ~1hr, closed during sampling
Windows open? No **Ventilation fans?** No
Was there significant precipitation within 12 hours of (or during) the sampling event? Yes
Were any of the residents home during sampling? Yes **If yes, provide detail:** 2 adults, 2 children
Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:**

Air intake at ~4'10".
Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.):
- sample canister placed on buckets between SV-1 and SV-2 in unfinished hallway

GEI Consultants

AMBIENT AIR SAMPLING CHECKLIST

Sampling Location:
11 Morton - Basement
(finished side; on table behind

Sample ID: 045163-11MORT-B-Fin

Date: 8/20/2025-8/21/2025
Sampling personnel: D. Miller, J. Graff
Summa Canister ID: 1692
Flow Regulator ID: 01258
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 0919 (8/20)
Sampling Finish Time: 0919 (8/21)

	During Sampling	
	Time	**Vacuum**
8/20/2025	0919	-30.31
8/21/2025	0919	-5.31

Did Summa canister go to ambient pressure? No
Vacuum pressure reported by Laboratory: ---

Pressure gauge reading (Pre-opening): **Flow Controller:** -30.31 in. Hg (0.00 before opening)
Pressure gauge reading (After sample collected): **Flow Controller:** -5.31 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	65	63
Barometric Pressure (in. Hg):	30.19	30.10
Prevailing Wind Direction:	E	NE
General Weather Conditions:	Light Rain	Cloudy

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	74	74
Barometric Pressure (in. Hg):	30.19	30.07

PID readings at sample location (ppmv): 0.0 to 0.1

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:**
Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? Yes **If yes, how long?** Windows cracked ~1hr, closed during sampling
Windows open? No **Ventilation fans?** No
Was there significant precipitation within 12 hours of (or during) the sampling event? Yes
Were any of the residents home during sampling? Yes **If yes, provide detail:** 2 adults, 2 children
Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:**

Air intake at ~5'.
Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.):
- sample canister placed on shelf behind bed

GEI Consultants

AMBIENT AIR SAMPLING CHECKLIST

Sampling Location:
11 Morton - First Floor (on bookshelf near windows)

Sample ID: 045163-11MORT-F1

Date: 8/28/2025-8/29/2025
Sampling personnel: D. Miller
Summa Canister ID: 5660
Flow Regulator ID: 02275
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 0906 (8/28/25)
Sampling Finish Time: 0840 (8/29/25)

	During Sampling	
	Time	Vacuum
8/28/2025	0906	-30.25
8/29/2025	0840	-7.64

Did Summa canister go to ambient pressure? No
Vacuum pressure reported by Laboratory: ---

Pressure gauge reading (Pre-opening): **Flow Controller:** -30.25 in. Hg (0.00 before opening)
Pressure gauge reading (After sample collected): **Flow Controller:** -7.64 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	64	66
Barometric Pressure (in. Hg):	30.14	29.98
Prevailing Wind Direction:	W	SSE
General Weather Conditions:	Sunny	Sunny

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	74	74
Barometric Pressure (in. Hg):	30.14	29.98

PID readings at sample location (ppmv): 3.8

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:**
Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? No **If yes, how long?**
Windows open? No **Ventilation fans?** No
Was there significant precipitation within 12 hours of (or during) the sampling event? No
Were any of the residents home during sampling? Yes **If yes, provide detail:** 2 adults, 3 children
Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:**

Air intake at ~6'.
Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.):

GEI Consultants

AMBIENT AIR SAMPLING CHECKLIST

Sampling Location:
11 Morton - Basement
(finished side; on table behind

Sample ID: 045163-11MORT-B-Fin

Date: 8/28/2025-8/29/2025
Sampling personnel: D. Miller
Summa Canister ID: 5923
Flow Regulator ID: 0286
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 0908 (8/28/25)
Sampling Finish Time: 0843 (8/29/25)

During Sampling		
	Time	Vacuum
8/28/2025	0908	-29.54
8/29/2025	0843	-8.47

Did Summa canister go to ambient pressure? No
Vacuum pressure reported by Laboratory: ---

Pressure gauge reading (Pre-opening): **Flow Controller:** -29.54 in. Hg (0.00 before opening)
Pressure gauge reading (After sample collected): **Flow Controller:** -8.47 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	64	66
Barometric Pressure (in. Hg):	30.14	29.98
Prevailing Wind Direction:	W	SSE
General Weather Conditions:	Sunny	Sunny

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	74	74
Barometric Pressure (in. Hg):	30.14	29.98

PID readings at sample location (ppmv): 4.4

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:**
Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? No **If yes, how long?**
Windows open? No **Ventilation fans?** No
Was there significant precipitation within 12 hours of (or during) the sampling event? No
Were any of the residents home during sampling? Yes **If yes, provide detail:** 2 adults, 3 children
Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:**

Air intake at ~5'.
Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.):

GEI Consultants

AMBIENT AIR SAMPLING CHECKLIST

Sampling Location: 11 Morton - Basement (unfinished side)

Sample ID: 045163-11MORT-B-Unfin

Date: 8/28/2025-8/29/2025
Sampling personnel: D. Miller
Summa Canister ID: 5781
Flow Regulator ID: 02223
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 0912 (8/28/2025)
Sampling Finish Time: 0908 (8/29/2025)

During Sampling		
	Time	Vacuum
8/28/2025	0912	-30.43
8/29/2025	0908	-12.85

Did Summa canister go to ambient pressure? No
Vacuum pressure reported by Laboratory: ---

Pressure gauge reading (Pre-opening): **Flow Controller:** -30.43 in. Hg (0.00 before opening)
Pressure gauge reading (After sample collected): **Flow Controller:** -12.58 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	64	66
Barometric Pressure (in. Hg):	30.14	29.98
Prevailing Wind Direction:	W	SSE
General Weather Conditions:	Sunny	Sunny

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	70	74
Barometric Pressure (in. Hg):	30.14	29.98

PID readings at sample location (ppmv): 1.5

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:**
Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? No **If yes, how long?**
Windows open? No **Ventilation fans?** No
Was there significant precipitation within 12 hours of (or during) the sampling event? No
Were any of the residents home during sampling? Yes **If yes, provide detail:** 2 adults, 3 children
Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:**

Air intake at ~4'10".
Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.):
- sample canister placed on buckets between SV-1 and SV-2 in unfinished hallway

GEI Consultants

SUB-SLAB SAMPLING CHECKLIST

Sampling Location:
11 Morton Street, SV1

Sample ID: 045163-11Mort-SV1

Date: 8/21/25
Sampling personnel: J.Graff
Summa Canister ID: 3441
Flow Regulator ID: 01037
Sample Type / Analysis Method: TO-15
Sampling Start Time: 1051
Sampling Finish Time: 1151

Did Summa Canister go to ambient pressure? No

During Sampling	
Time	**Vacuum**
1051	-29.44
1106	-24.44
1121	-18.75
1136	-13.00
1151	-7.02

Pressure gauge reading (Pre-opening): **Flow Controller:** 0.00 --> -29.44 in.Hg
Pressure gauge reading (After sample collected): **Flow Controller:** -7.02 --> 0.00 in.Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	66°F	68°F
Barometric Pressure:	30.08 in. Hg	30.07 in. Hg
Prevailing Wind Direction:	ENE	ENE
General Weather Conditions:	Cloudy	Cloudy

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** JWG
Vacuum prior to sampling (in. WC): -0.004
Ambient air concentration (ppm): 0.0 to 0.1
Soil gas concentration prior to sampling (ppm): 0.0 to 0.2
Vapor point purged for ~5 min **with a MiniRAE 3000 (500-600 cc/min) prior to sampling.**

Comments:
Mini vapor pin, APU in basement shut off after sampling

GEI Consultants

SUB-SLAB SAMPLING CHECKLIST

Sampling Location:
11 Morton Street, SV1

Sample ID: 045163-11Mort-SV1

Date: 8/29/25

Sampling personnel: C. McCallum-Green

Summa Canister ID: 2044

Flow Regulator ID: 02848

Sample Type / Analysis Method: TO-15

Sampling Start Time: 0912

Sampling Finish Time: 1012

Did Summa Canister go to ambient pressure? No

During Sampling	
Time	**Vacuum**
0912	-29.80
0930	-23.26
0944	-16.9
0959	-10.60
1012	-6.02

Pressure gauge reading (Pre-opening): **Flow Controller:** 0.00 --> -29.80 in.Hg

Pressure gauge reading (After sample collected): **Flow Controller:** -6.02 --> 0.00 in.Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	67°F	71
Barometric Pressure:	29.98	29.96
Prevailing Wind Direction:	SSE	SSW
General Weather Conditions:	Sunny	Sunny

Photographs taken before sampling? Yes **If Yes, what time:** 0930 **Taken by:** CMG

Vacuum prior to sampling (in. WC): 0.000

Ambient air concentration (ppm): 1.5

Soil gas concentration prior to sampling (ppm):

Vapor point purged for ~5 min **with a MiniRAE 3000 (500-600 cc/min) prior to sampling.**

Comments:

GEI Consultants

SUB-SLAB SAMPLING CHECKLIST

Sampling Location:
11 Morton Street, SV2

Sample ID: 045163-11Mort-SV2

Date: 8/21/25
Sampling personnel: J.Graff
Summa Canister ID: 3415
Flow Regulator ID: 02094
Sample Type / Analysis Method: TO-15
Sampling Start Time: 1058
Sampling Finish Time: 1158

Did Summa Canister go to ambient pressure? No

During Sampling	
Time	**Vacuum**
1058	-30.15
1113	-24.76
1128	-18.61
1143	-12.72
1158	-6.11

Pressure gauge reading (Pre-opening): **Flow Controller:** 0.00 --> -30.15 in.Hg
Pressure gauge reading (After sample collected): **Flow Controller:** -6.11 --> 0.00 in.Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	67°F	68°F
Barometric Pressure:	30.07 in. Hg	30.07 in. Hg
Prevailing Wind Direction:	ENE	ENE
General Weather Conditions:	Cloudy	Cloudy

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** JWG
Vacuum prior to sampling (in. WC): 0.004
Ambient air concentration (ppm): 0.0 to 0.1
Soil gas concentration prior to sampling (ppm): 0.0 to 0.1
Vapor point purged for ~5 min **with a MiniRAE 3000 (500-600 cc/min) prior to sampling.**

Comments:
Mini vapor pin, APU in basement shut off after sampling

GEI Consultants

SUB-SLAB SAMPLING CHECKLIST

Sampling Location:
11 Morton Street, SV2

Sample ID: 045163-11Mort-SV2

Date: 8/29/25

Sampling personnel: C.McCallum-Green

Summa Canister ID: 230

Flow Regulator ID: 0909

Sample Type / Analysis Method: TO-15

Sampling Start Time: 0915

Sampling Finish Time: 1015

Did Summa Canister go to ambient pressure? No

During Sampling	
Time	**Vacuum**
0915	-29.84
0931	-24.4
0945	-18.13
1000	-12.10
1015	-6.90

Pressure gauge reading (Pre-opening): **Flow Controller:** 0.00 --> -29.84 in.Hg

Pressure gauge reading (After sample collected): **Flow Controller:** -6.90 --> 0.00 in.Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	67°F	71
Barometric Pressure:	29.98	29.96
Prevailing Wind Direction:	SSE	SSW
General Weather Conditions:	Sunny	Sunny

Photographs taken before sampling? Yes **If Yes, what time:** 0930 **Taken by:** CMG

Vacuum prior to sampling (in. WC): 0.000

Ambient air concentration (ppm): 1.3

Soil gas concentration prior to sampling (ppm):

Vapor point purged for ~5 min **with a MiniRAE 3000 (500-600 cc/min) prior to sampling.**

Comments:

GEI Consultants

AMBIENT AIR SAMPLING CHECKLIST

Sampling Location: 11 Morton - First Floor (on bookshelf near windows)

Sample ID: 045163-11MORT-F1

Date: 12/18/2025-12/19/2025

Sampling personnel: N. Troccolo

Summa Canister ID: 2835

Flow Regulator ID: 01251

Sample Type / Analysis Method: TO15/Summa

Sampling Start Time: 1150 (12/18/2025)

Sampling Finish Time: 1150 (12/19/2025)

Did Summa canister go to ambient pressure? No

Vacuum pressure reported by Laboratory: ---

	During Sampling	
	Time	**Vacuum**
12/18/2025	11:50	-30.24
	12:00	-30.05
12/19/2025	11:30	-9.26
	11:50	-8.99

Pressure gauge reading (Pre-opening): **Flow Controller:** -30.24. in. Hg (0.00 before opening)

Pressure gauge reading (After sample collected): **Flow Controller:** -8.99 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	42	56
Barometric Pressure (in. Hg):	30.31	29.31
Prevailing Wind Direction:	S	S
General Weather Conditions:	Clear	Rain

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	~70	~70
Barometric Pressure (in. Hg):	30.31	29.31

PID readings at sample location (ppmv): 0.2

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** NMT

Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? No **If yes, how long?**

Windows open? No **Ventilation fans?** No

Was there significant precipitation within 12 hours of (or during) the sampling event? Yes

Were any of the residents home during sampling? Yes **If yes, provide detail:** 2 adults, 3 children

Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:**

Air intake at ~6'.

Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.):

GEI Consultants

SUB-SLAB SAMPLING CHECKLIST

Sampling Location:
11 Morton Street, SV1

Sample ID: 045163-11Mort-SV1

Date: 12/19/25
Sampling personnel: N. Troccolo
Summa Canister ID: 4419
Flow Regulator ID: 02966
Sample Type / Analysis Method: TO-15
Sampling Start Time: 1200
Sampling Finish Time: 1300

Did Summa Canister go to ambient pressure? No

During Sampling	
Time	**Vacuum**
12:00	-29.09
12:15	-23.59
12:30	-17.04
12:45	-10.16
13:00	-4.39

Pressure gauge reading (Pre-opening): **Flow Controller:** 0.00 --> -29.09 in.Hg
Pressure gauge reading (After sample collected): **Flow Controller:** -4.39 --> 0.00 in.Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	58°F	56
Barometric Pressure:	29.3	29.22
Prevailing Wind Direction:	S	S
General Weather Conditions:	Rain	Rain

Photographs taken before sampling? Yes **If Yes, what time:** 1200 **Taken by:** NMT
Vacuum prior to sampling (in. WC): 0.000
Ambient air concentration (ppm): 0.1
Soil gas concentration prior to sampling (ppm): 0.1-0.2
Vapor point purged for ~5 min **with a MiniRAE 3000 (500-600 cc/min) prior to sampling.**

Comments: Paint cans in unfinished hallway

GEI Consultants

SUB-SLAB SAMPLING CHECKLIST

Sampling Location:
11 Morton Street, SV2

Sample ID: 045163-11Mort-SV2

Date: 12/19/25
Sampling personnel: N. Troccolo
Summa Canister ID: 3110
Flow Regulator ID: 0625
Sample Type / Analysis Method: TO-15
Sampling Start Time: 1205
Sampling Finish Time: 1305

Did Summa Canister go to ambient pressure? No

During Sampling	
Time	**Vacuum**
12:05	-29.28
12:20	-23.61
12:35	-17.13
12:50	-12.09
13:05	-6.27

Pressure gauge reading (Pre-opening): **Flow Controller:** 0.00 --> -29.28 in.Hg
Pressure gauge reading (After sample collected): **Flow Controller:** -6.27 --> 0.00 in.Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	58°F	56
Barometric Pressure:	29.3	29.22
Prevailing Wind Direction:	S	S
General Weather Conditions:	Rain	Rain

Photographs taken before sampling? Yes **If Yes, what time:** 1200 **Taken by:** NMT
Vacuum prior to sampling (in. WC): 0.000
Ambient air concentration (ppm): 0.1
Soil gas concentration prior to sampling (ppm): 0.0
Vapor point purged for ~5 min **with a MiniRAE 3000 (500-600 cc/min) prior to sampling.**

Comments: Paint cans in unfinished hallway

GEI Consultants

AMBIENT AIR SAMPLING CHECKLIST

Sampling Location: 60 Tufts Hallway (Near SVP SS14)

Sample ID: 60TUFT-HALL

Date: 9/30/25-10/1/25
Sampling personnel: J.Graff, D. Miller
Summa Canister ID: 3354
Flow Regulator ID: 01686
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 0643 (9/30/25)
Sampling Finish Time: 0643 (10/1/25)

	During Sampling	
	Time	Vacuum
9/30/2025	0643	-30.34
10/1/2025	0643	-10.21

Did Summa canister go to ambient pressure? No
Vacuum pressure reported by Laboratory: ---

Pressure gauge reading (Pre-opening): **Flow Controller:** -30.34 in. Hg (0.00 before opening)
Pressure gauge reading (After sample collected): **Flow Controller:** -10.21 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	57	50
Barometric Pressure (in. Hg):	30.09	30.18
Prevailing Wind Direction:	WNW	N
General Weather Conditions:	Cloudy	Cloudy

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	70	68
Barometric Pressure (in. Hg):	30.06	30.14

PID readings at sample location (ppmv): 0.0

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** DJM
Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? No **If yes, how long?**
Windows open? No **Ventilation fans?** No
Was there significant precipitation within 12 hours of (or during) the sampling event? No
Were any of the residents home during sampling? Yes **If yes, provide detail:** Residents of building walking through the hall
Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:**

Air intake at ~4'10".
Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.):

GEI Consultants

AMBIENT AIR SAMPLING CHECKLIST

Sampling Location:
60 Tufts Storage Area

Sample ID: 60TUFT-STOR1

Date: 9/30/25-10/1/25
Sampling personnel: J.Graff, D. Miller
Summa Canister ID: 1844
Flow Regulator ID: 02264
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 0655 (9/30/25)
Sampling Finish Time: 0655 (10/1/25)

	During Sampling	
	Time	**Vacuum**
9/30/2025	0655	-30.09
10/1/2025	0655	-11.32

Did Summa canister go to ambient pressure? No
Vacuum pressure reported by Laboratory: ---

Pressure gauge reading (Pre-opening): **Flow Controller:** -30.09 in. Hg (0.00 before opening)
Pressure gauge reading (After sample collected): **Flow Controller:** -11.32 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	57	50
Barometric Pressure (in. Hg):	30.10	30.18
Prevailing Wind Direction:	WNW	N
General Weather Conditions:	Cloudy	Cloudy

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	68	68
Barometric Pressure (in. Hg):	30.06	30.15

PID readings at sample location (ppmv): 0.0

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** DJM
Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? No **If yes, how long?**
Windows open? No **Ventilation fans?** No
Was there significant precipitation within 12 hours of (or during) the sampling event? No
Were any of the residents home during sampling? No **If yes, provide detail:** N/A
Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:**

Air intake at ~4'10".
Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.):

GEI Consultants

AMBIENT AIR SAMPLING CHECKLIST

Sampling Location:
60 Tufts Storage Area

Sample ID: 60TUFT-STOR2

Date: 9/30/25-10/1/25
Sampling personnel: J.Graff, D. Miller
Summa Canister ID: 2647
Flow Regulator ID: 02918
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 0653 (9/30/25)
Sampling Finish Time: 0653 (10/1/25)

	During Sampling	
	Time	Vacuum
9/30/2025	0653	-29.97
10/1/2025	0653	-10.25

Did Summa canister go to ambient pressure? No
Vacuum pressure reported by Laboratory: ---

Pressure gauge reading (Pre-opening): **Flow Controller:** -29.97 in. Hg (0.00 before opening)
Pressure gauge reading (After sample collected): **Flow Controller:** -10.25 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	57	50
Barometric Pressure (in. Hg):	30.10	30.18
Prevailing Wind Direction:	WNW	N
General Weather Conditions:	Cloudy	Cloudy

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	68	68
Barometric Pressure (in. Hg):	30.06	30.15

PID readings at sample location (ppmv): 0.0

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** DJM
Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? No **If yes, how long?**
Windows open? No **Ventilation fans?** No
Was there significant precipitation within 12 hours of (or during) the sampling event? No
Were any of the residents home during sampling? No **If yes, provide detail:** N/A
Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:**

Air intake at ~4'10".
Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.):

GEI Consultants

AMBIENT AIR SAMPLING CHECKLIST

Sampling Location: 60 Tufts Unit 1 (Center of living space)

Sample ID: 60TUFTS-1

Date: 9/30/25-10/1/25
Sampling personnel: J.Graff, D. Miller
Summa Canister ID: 2901
Flow Regulator ID: 0845
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 0616 (9/30/25)
Sampling Finish Time: 0616 (10/1/25)

	During Sampling	
	Time	Vacuum
9/30/2025	0616	-30.31
10/1/2025	0616	-9.02

Did Summa canister go to ambient pressure? No
Vacuum pressure reported by Laboratory: ---

Pressure gauge reading (Pre-opening): **Flow Controller:** -30.31 in. Hg (0.00 before opening)
Pressure gauge reading (After sample collected): **Flow Controller:** -9.02 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	56	51
Barometric Pressure (in. Hg):	30.08	30.17
Prevailing Wind Direction:	W	N
General Weather Conditions:	Cloudy	Cloudy

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	70	70
Barometric Pressure (in. Hg):	30.05	30.14

PID readings at sample location (ppmv): 0.0

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** DJM
Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? No **If yes, how long?**
Windows open? No **Ventilation fans?** No
Was there significant precipitation within 12 hours of (or during) the sampling event? No
Were any of the residents home during sampling? Yes **If yes, provide detail:** 1 adult
Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:**

Air intake at ~4'10".
Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.):

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AMBIENT AIR SAMPLING CHECKLIST

Sampling Location:
60 Tufts Unit 4 Basement

Sample ID: 60TUFTS4-B

Date: 9/30/25-10/1/25
Sampling personnel: J.Graff, D. Miller
Summa Canister ID: 2585
Flow Regulator ID: 01117
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 0902 (9/30/25)
Sampling Finish Time: 0902 (10/1/25)

	During Sampling	
	Time	**Vacuum**
9/30/2025	0902	-30.21
10/1/2025	0902	-9.62

Did Summa canister go to ambient pressure? No
Vacuum pressure reported by Laboratory: ---

Pressure gauge reading (Pre-opening): **Flow Controller:** -30.21 in. Hg (0.00 before opening)
Pressure gauge reading (After sample collected): **Flow Controller:** -9.62 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	65	58
Barometric Pressure (in. Hg):	30.11	30.21
Prevailing Wind Direction:	N	NNE
General Weather Conditions:	Cloudy	Sunny

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	68	70
Barometric Pressure (in. Hg):	30.07	

PID readings at sample location (ppmv): 0.0-0.1

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** DJM
Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? No **If yes, how long?**
Windows open? No **Ventilation fans?** No
Was there significant precipitation within 12 hours of (or during) the sampling event? No
Were any of the residents home during sampling? Yes **If yes, provide detail:** 1-2 adults
Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:**

Air intake at ~4'10".
Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.):

GEI Consultants

AMBIENT AIR SAMPLING CHECKLIST

Sampling Location:
60 Tufts Unit 4 First Floor

Sample ID: 60TUFTS4-1

Date: 9/30/25-10/1/25
Sampling personnel: J.Graff, D. Miller
Summa Canister ID: 2659
Flow Regulator ID: 02258
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 0900 (9/30/25)
Sampling Finish Time: 0900 (10/1/25)

	During Sampling	
	Time	Vacuum
9/30/2025	0900	-30.03
10/1/2025	0900	-11.94

Did Summa canister go to ambient pressure? No
Vacuum pressure reported by Laboratory: ---

Pressure gauge reading (Pre-opening): **Flow Controller:** -30.03 in. Hg (0.00 before opening)
Pressure gauge reading (After sample collected): **Flow Controller:** -11.94 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	65	58
Barometric Pressure (in. Hg):	30.11	30.21
Prevailing Wind Direction:	N	NNE
General Weather Conditions:	Cloudy	Sunny

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	70	70
Barometric Pressure (in. Hg):	30.06	

PID readings at sample location (ppmv): 0.1

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** DJM
Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? No **If yes, how long?**
Windows open? No **Ventilation fans?** No
Was there significant precipitation within 12 hours of (or during) the sampling event? No
Were any of the residents home during sampling? Yes **If yes, provide detail:** 1-2 adults
Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:**

Air intake at ~4'10".
Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.):

GEI Consultants

AMBIENT AIR SAMPLING CHECKLIST

Sampling Location: 60 Tufts Garage (in bike storage room)

Sample ID: 60TUFT-GARG

Date: 9/30/25-10/1/25

Sampling personnel: J.Graff, D. Miller

Summa Canister ID: 4266

Flow Regulator ID: 01247

Sample Type / Analysis Method: TO15/Summa

Sampling Start Time: 0640 (9/30/25)

Sampling Finish Time: 0640 (10/1/25)

	During Sampling	
	Time	**Vacuum**
9/30/2025	0640	-30.21
10/1/2025	0640	-8.86

Did Summa canister go to ambient pressure? No

Vacuum pressure reported by Laboratory: ---

Pressure gauge reading (Pre-opening): **Flow Controller:** -30.21 in. Hg (0.00 before opening)

Pressure gauge reading (After sample collected): **Flow Controller:** -8.86 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	57	50
Barometric Pressure (in. Hg):	30.09	30.18
Prevailing Wind Direction:	WNW	N
General Weather Conditions:	Cloudy	Cloudy

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	68	68
Barometric Pressure (in. Hg):	30.06	30.14

PID readings at sample location (ppmv): 0.0

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** DJM

Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? No **If yes, how long?**

Windows open? No **Ventilation fans?** No

Was there significant precipitation within 12 hours of (or during) the sampling event? No

Were any of the residents home during sampling? Yes **If yes, provide detail:** Residents of building

Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:**

Air intake at ~4'10".

Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.): Exit door open/closed throughout sampling for resident entry/exit to parking

GEI Consultants

SUB-SLAB SAMPLING CHECKLIST

Sampling Location:
60 Tufts Hallway

Sample ID: 60TUFT-SS14

Date: 10/1/25
Sampling personnel: J. Graff, D. Miller
Summa Canister ID: 153
Flow Regulator ID: 03145
Sample Type / Analysis Method: TO-15
Sampling Start Time: 0744
Sampling Finish Time: 0844

Did Summa Canister go to ambient pressure? No

During Sampling	
Time	**Vacuum**
0744	-29.68
0759	-23.96
0813	-18.36
0827	-12.68
0844	-6.01

Pressure gauge reading (Pre-opening): **Flow Controller:** 0.00 --> -29.68 in.Hg
Pressure gauge reading (After sample collected): **Flow Controller:** -6.01 --> 0.00 in.Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	53°F	54°F
Barometric Pressure:	30.18 in. Hg	30.19 in. Hg
Prevailing Wind Direction:	N	NNE
General Weather Conditions:	Sunny	Sunny

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** DJM
Vacuum prior to sampling (in. WC): 0.000
Ambient air concentration (ppm): 0.0
Soil gas concentration prior to sampling (ppm): 0.0
Vapor point purged for ~5 min **with a MiniRAE 3000 (500-600 cc/min) prior to sampling.**

Comments:

GEI Consultants

SUB-SLAB SAMPLING CHECKLIST

Sampling Location:
60 Tufts Bike Storage Area

Sample ID: 60TUFT-SS10

Date: 10/1/25
Sampling personnel: J. Graff, D. Miller
Summa Canister ID: 550
Flow Regulator ID: 01039
Sample Type / Analysis Method: TO-15
Sampling Start Time: 0745
Sampling Finish Time: 0845

Did Summa Canister go to ambient pressure? No

During Sampling	
Time	**Vacuum**
0745	-28.72
0800	-23.1
0813	-17.39
0827	-11.41
0845	-4.25

Pressure gauge reading (Pre-opening): **Flow Controller:** 0.00 --> -28.72 in.Hg
Pressure gauge reading (After sample collected): **Flow Controller:** -4.25 --> 0.00 in.Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	52°F	54°F
Barometric Pressure:	30.17 in. Hg	30.19 in. Hg
Prevailing Wind Direction:	NNE	NNE
General Weather Conditions:	Sunny	Sunny

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** DJM
Vacuum prior to sampling (in. WC): 0.000
Ambient air concentration (ppm): 0.0
Soil gas concentration prior to sampling (ppm): 0.1
Vapor point purged for ~5 min **with a MiniRAE 3000 (500-600 cc/min) prior to sampling.**

Comments:

GEI Consultants

SUB-SLAB SAMPLING CHECKLIST

Sampling Location:
60 Tufts Storage Area (Back corner)

Sample ID: 60TUFT-SS1

Date: 10/1/25
Sampling personnel: J. Graff, D. Miller
Summa Canister ID: 351
Flow Regulator ID: 03162
Sample Type / Analysis Method: TO-15
Sampling Start Time: 0740
Sampling Finish Time: 0840

Did Summa Canister go to ambient pressure? No

During Sampling	
Time	**Vacuum**
0740	-29.92
0755	-24.15
0810	-18.15
0825	-11.80
0840	-6.20

Pressure gauge reading (Pre-opening): **Flow Controller:** 0.00 --> -29.92 in.Hg
Pressure gauge reading (After sample collected): **Flow Controller:** -6.20 --> 0.00 in.Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	53°F	54°F
Barometric Pressure:	30.18 in. Hg	30.19 in. Hg
Prevailing Wind Direction:	N	NNE
General Weather Conditions:	Sunny	Sunny

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** DJM
Vacuum prior to sampling (in. WC): 0.000
Ambient air concentration (ppm): 0.0
Soil gas concentration prior to sampling (ppm): 0.0
Vapor point purged for ~5 min **with a MiniRAE 3000 (500-600 cc/min) prior to sampling.**

Comments:

GEI Consultants

SUB-SLAB SAMPLING CHECKLIST

Sampling Location:
60 Tufts Storage Area (Front corner)

Sample ID: 60TUFT-StorageS-SS2

Date: 10/1/25

Sampling personnel: J. Graff, D. Miller

Summa Canister ID: 3898

Flow Regulator ID: 03032

Sample Type / Analysis Method: TO-15

Sampling Start Time: 0741

Sampling Finish Time: 0841

Did Summa Canister go to ambient pressure? No

During Sampling	
Time	**Vacuum**
0741	-29.82
0756	-24.36
0811	-17.94
0826	-11.36
0841	-4.79

Pressure gauge reading (Pre-opening): **Flow Controller:** 0.00 --> -29.82 in.Hg

Pressure gauge reading (After sample collected): **Flow Controller:** -4.79 --> 0.00 in.Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	53°F	54°F
Barometric Pressure:	30.18 in. Hg	30.19 in. Hg
Prevailing Wind Direction:	N	NNE
General Weather Conditions:	Sunny	Sunny

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** DJM

Vacuum prior to sampling (in. WC): 0.000

Ambient air concentration (ppm): 0.1

Soil gas concentration prior to sampling (ppm): 0.0

Vapor point purged for ~5 min **with a MiniRAE 3000 (500-600 cc/min) prior to sampling.**

Comments:

GEI Consultants

SUB-SLAB SAMPLING CHECKLIST

Sampling Location:
60 Tufts Unit 1 (Center of living area)

Sample ID: 60TUFT-SS13

Date: 10/1/25
Sampling personnel: J. Graff, D. Miller
Summa Canister ID: 199
Flow Regulator ID: 01541
Sample Type / Analysis Method: TO-15
Sampling Start Time: 0631
Sampling Finish Time: 0731

Did Summa Canister go to ambient pressure? No

During Sampling	
Time	**Vacuum**
0631	-30.67
0650	-22.58
0719	-10.92
0731	-5.75

Pressure gauge reading (Pre-opening): **Flow Controller:** 0.00 --> -30.67 in.Hg
Pressure gauge reading (After sample collected): **Flow Controller:** -5.75 --> 0.00 in.Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	51°F	52°F
Barometric Pressure:	30.17 in. Hg	30.18 in. Hg
Prevailing Wind Direction:	N	N
General Weather Conditions:	Cloudy	Sunny

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** DJM
Vacuum prior to sampling (in. WC): 0.000
Ambient air concentration (ppm): 0.0
Soil gas concentration prior to sampling (ppm): 0.0
Vapor point purged for ~5 min **with a MiniRAE 3000 (500-600 cc/min) prior to sampling.**

Comments:

GEI Consultants

SUB-SLAB SAMPLING CHECKLIST

Sampling Location: 60 Tufts Unit 4 Basement (Back Corner)

Sample ID: 60TUFTS4-SS2

Date: 10/1/25

Sampling personnel: J. Graff, D. Miller

Summa Canister ID: 2078

Flow Regulator ID: 03039

Sample Type / Analysis Method: TO-15

Sampling Start Time: 0912

Sampling Finish Time: 1012

Did Summa Canister go to ambient pressure? No

During Sampling	
Time	**Vacuum**
0912	-30.07
0931	-22.69
1000	-10.85
1012	-6.86

Pressure gauge reading (Pre-opening): **Flow Controller:** 0.00 --> -30.07 in.Hg

Pressure gauge reading (After sample collected): **Flow Controller:** -6.86 --> 0.00 in.Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	55°F	58°F
Barometric Pressure:	30.20 in. Hg	30.21 in. Hg
Prevailing Wind Direction:	NNE	NNE
General Weather Conditions:	Sunny	Sunny

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** DJM

Vacuum prior to sampling (in. WC): 0.000

Ambient air concentration (ppm): 0.0

Soil gas concentration prior to sampling (ppm): 0.0

Vapor point purged for ~5 min **with a MiniRAE 3000 (500-600 cc/min) prior to sampling.**

Comments:

GEI Consultants

SUB-SLAB SAMPLING CHECKLIST

Sampling Location: 121 Washington Street, SV2 (Back of Stairs)

Sample ID: 045163-121Wash-SV-2

Date: 12/12/2025

Sampling personnel: D. Miller, J. Higgins

Summa Canister ID: 2342

Flow Regulator ID: 03022

Sample Type / Analysis Method: TO-15

Sampling Start Time: 13:37

Sampling Finish Time: 14:37

Did Summa Canister go to ambient pressure? No

During Sampling	
Time	**Vacuum**
13:37	-29.52
13:52	-25.22
14:03	-18.81
14:18	-12.77
14:37	-4.77

Pressure gauge reading (Pre-opening): **Flow Controller:** 0.00 --> -29.52 in.Hg

Pressure gauge reading (After sample collected): **Flow Controller:** -4.77 --> 0.00 in.Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	35	35
Barometric Pressure:	29.87 in. Hg	29.87 in. Hg
Prevailing Wind Direction:	W	W
General Weather Conditions:	Sunny	Sunny

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** DJM

Vacuum prior to sampling (in. WC): 0.000

Ambient air concentration (ppm): 0.0

Soil gas concentration prior to sampling (ppm): 0.0

Vapor point purged for ~5 min **with a MiniRAE 3000 (500-600 cc/min) prior to sampling.**

Comments:

- SV2 installed on 12/12/2025 under staircase. See installation sheet for location.

SUB-SLAB MONITORING POINT INSTALLATION LOG

GEI Consultants

Sub-Slab Monitoring Point IDs:

SV1 & SV2

Project Name: 121 Washington Street
Project Number: 045163
Address: 121 Washington St, Somerville, MA
Date: 12/12/2025
Logged By: D. Miller, J. Higgins

Basement Sketch:

- Slab-on-grade; SV1 and SV2 installed on first floor
- See construction drawings for sketch showing locations of SV1 and SV2 (included in 121 Washington Street Release Abatement Measure Status Report No. 4)

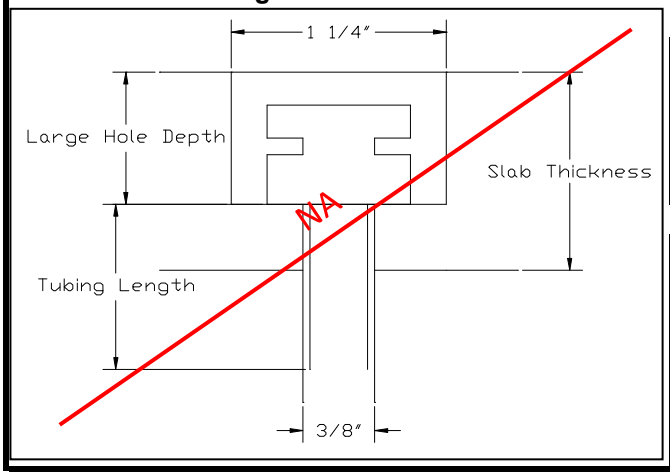
Ceiling Height: ~10'
Basement Height Above Grade: NA

Include: Wall lengths, sump dimension and location, dimensions and locations of any significant penetrations in the ground, sub-slab monitoring point locations, location of sealed vs. non-sealed walls, north arrow

Basement Sketch for Photo Log:

NA

Sub-Slab Monitoring Point Profile:



	SV1	SV2		
Slab Thickness:	5"	7.75"		
Tubing Length:	NA	NA		
Type of Material Under Slab:	fine sand	fine sand		
Large Hole Depth:	1.75"	1.75"		

Comments:

- installed stainless steel VaporPins ®
- to install, drilled a 5/8" diameter hole through slab, and 1-1/2" diameter hole 1-3/4" deep for flushmount cover
- NA = not applicable

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AMBIENT AIR SAMPLING CHECKLIST

Sampling Location: 93 Franklin - B

Sample ID: 045163-93FRAN-B

Date: 12/18/2025 to 12/19/2025
Sampling personnel: N. Troccolo
Summa Canister ID: 5661
Flow Regulator ID: 02872
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 0735 (12/18/2025)
Sampling Finish Time: 0735 (12/19/2025)

Did Summa canister go to ambient pressure? No
Vacuum pressure reported by Laboratory: ---

	During Sampling	
	Time	**Vacuum**
12/18/2025	7:35	-29.98
12/19/2025	7:30	-8.86
	7:35	-8.74

Pressure gauge reading (Pre-opening): **Flow Controller:** -29.98 in. Hg (0.00 before opening)
Pressure gauge reading (After sample collected): **Flow Controller:** -8.74 in. Hg (0.00 after closing)

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	30	53
Barometric Pressure (in. Hg):	30.30	29.72
Prevailing Wind Direction:	W	S
General Weather Conditions:	Clear	Rain/Cloudy

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	~64	~64
Barometric Pressure (in. Hg):	30.30	29.72

PID readings at sample location (ppmv): 0.1

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** NMT
Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? No **If yes, how long?**
Windows open? No **Ventilation fans?** No
Was there significant precipitation within 12 hours of (or during) the sampling event? Yes
Were any of the residents home during sampling? Yes **If yes, provide detail:** Adult residents at both 91 and 93 Franklin
Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:**

Air intake at ~4'10".
Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.): Laundry in basement (on 93 side), paint cans in basement

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AMBIENT AIR SAMPLING CHECKLIST

Sampling Location: 91 Franklin - First floor (hallway)

Sample ID: 045163-91FRAN-1

Date: 12/18/2025 to 12/19/2025
Sampling personnel: N. Troccolo
Summa Canister ID: 5240
Flow Regulator ID: 02940
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 0740 (12/18/2025)
Sampling Finish Time: 0740 (12/19/2025)

Did Summa canister go to ambient pressure? No
Vacuum pressure reported by Laboratory: ---

	During Sampling	
	Time	**Vacuum**
12/18/2025	7:40	-30.12
12/19/2025	7:35	-8.61
	7:40	-8.51

Pressure gauge reading (Pre-opening): **Flow Controller:** -30.12 in. Hg (0.00 before opening)
Pressure gauge reading (After sample collected): **Flow Controller:** -8.51 in. Hg (0.00 after closing)

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	30	53
Barometric Pressure (in. Hg):	30.30	29.72
Prevailing Wind Direction:	W	S
General Weather Conditions:	Clear	Rain/Cloudy

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	~70	~70
Barometric Pressure (in. Hg):	30.30	29.72

PID readings at sample location (ppmv): 0.0

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** NMT
Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? No **If yes, how long?**
Windows open? No **Ventilation fans?** No
Was there significant precipitation within 12 hours of (or during) the sampling event? Yes
Were any of the residents home during sampling? Yes **If yes, provide detail:** Adult residents at both 91 and 93 Franklin
Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:**

Air intake at ~4'10".
Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.): Laundry in basement (on 93 side), paint cans in hallway

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AMBIENT AIR SAMPLING CHECKLIST

Sampling Location: 93 Franklin - First floor (between living and dining room)

Sample ID: 045163-93FRAN-1

Date: 12/18/2025 to 12/19/2025
Sampling personnel: N. Troccolo
Summa Canister ID: 2919
Flow Regulator ID: 0181
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 0750 (12/18/2025)
Sampling Finish Time: 0750 (12/19/2025)

Did Summa canister go to ambient pressure? No
Vacuum pressure reported by Laboratory: ---

	During Sampling	
	Time	**Vacuum**
12/18/2025	7:50	-29.87
12/19/2025	7:42	-7.78
	7:50	-7.66

Pressure gauge reading (Pre-opening): **Flow Controller:** -29.87 in. Hg (0.00 before opening)
Pressure gauge reading (After sample collected): **Flow Controller:** -7.66 in. Hg (0.00 after closing)

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	30	53
Barometric Pressure (in. Hg):	30.30	29.72
Prevailing Wind Direction:	W	S
General Weather Conditions:	Clear	Rain/Cloudy

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	~68	~68
Barometric Pressure (in. Hg):	30.30	29.72

PID readings at sample location (ppmv): 0.0

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** NMT
Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? No **If yes, how long?**
Windows open? No **Ventilation fans?** No
Was there significant precipitation within 12 hours of (or during) the sampling event? Yes
Were any of the residents home during sampling? Yes **If yes, provide detail:** Adult residents at both 91 and 93 Franklin
Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:**

Air intake at ~4'10".
Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.): Laundry in basement (on 93 side)

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AMBIENT AIR SAMPLING CHECKLIST

Sampling Location:
32 Knowlton - Basement

Sample ID: 045163-32KNOW-B

Date: 12/18/2025 to 12/19/2025
Sampling personnel: N. Troccolo
Summa Canister ID: 2834
Flow Regulator ID: 02805
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 1105 (12/18/2025)
Sampling Finish Time: 1105 (12/19/2025)

	During Sampling	
	Time	**Vacuum**
12/18/2025	11:05	-29.46
12/19/2025	11:05	-9.18

Did Summa canister go to ambient pressure? No
Vacuum pressure reported by Laboratory: ---

Pressure gauge reading (Pre-opening): **Flow Controller:** -29.46 in. Hg (0.00 before opening)
Pressure gauge reading (After sample collected): **Flow Controller:** -9.18 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	42	56
Barometric Pressure (in. Hg):	30.33	29.40
Prevailing Wind Direction:	S	S
General Weather Conditions:	Clear	Rain

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	~68	~68
Barometric Pressure (in. Hg):	30.33	29.40

PID readings at sample location (ppmv): 0.0

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** NMT
Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? No **If yes, how long?**
Windows open? No **Ventilation fans?** No
Was there significant precipitation within 12 hours of (or during) the sampling event? Yes
Were any of the residents home during sampling? Yes **If yes, provide detail:** Residents
Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:** 2 adult residents

Air intake at ~4'10".
Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.):

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AMBIENT AIR SAMPLING CHECKLIST

Sampling Location: 32 Knowlton - First Floor (living room)

Sample ID: 045163-32KNOW-1

Date: 12/18/2025 to 12/19/2025

Sampling personnel: N. Troccolo

Summa Canister ID: 951

Flow Regulator ID: 02904

Sample Type / Analysis Method: TO15/Summa

Sampling Start Time: 1110 (12/18/2025)

Sampling Finish Time: 1110 (12/19/2025)

	During Sampling	
	Time	**Vacuum**
12/18/2025	11:10	-29.78
12/19/2025	11:10	-9.28

Did Summa canister go to ambient pressure? No

Vacuum pressure reported by Laboratory: ---

Pressure gauge reading (Pre-opening): Flow Controller: -29.78 in. Hg (0.00 before opening)

Pressure gauge reading (After sample collected): Flow Controller: -9.28 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	42	56
Barometric Pressure (in. Hg):	30.33	29.40
Prevailing Wind Direction:	S	S
General Weather Conditions:	Clear	Rain

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	~70	~70
Barometric Pressure (in. Hg):	30.33	29.40

PID readings at sample location (ppmv): 0.0

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** NMT

Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? No **If yes, how long?**

Windows open? No **Ventilation fans?** No

Was there significant precipitation within 12 hours of (or during) the sampling event? Yes

Were any of the residents home during sampling? Yes **If yes, provide detail:** Residents

Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:** 2 adult residents

Air intake at ~4'10".

Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.):

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AMBIENT AIR SAMPLING CHECKLIST

Sampling Location:
34 Knowlton - First Floor

Sample ID: 045163-34KNOW-1

Date: 12/18/2025 to 12/19/2025
Sampling personnel: N. Troccolo
Summa Canister ID: 3955
Flow Regulator ID: 01468
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 0840 (12/18/2025)
Sampling Finish Time: 0840 (12/19/2025)

Did Summa canister go to ambient pressure? Yes
Vacuum pressure reported by Laboratory: ---

	During Sampling	
	Time	**Vacuum**
12/18/2025	8:40	-30.26
12/19/2025	8:30	-9.05
	8:40	-8.89

Pressure gauge reading (Pre-opening): **Flow Controller:** -30.26 in. Hg (0.00 before opening)
Pressure gauge reading (After sample collected): **Flow Controller:** -8.89 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	32	54
Barometric Pressure (in. Hg):	30.33	29.63
Prevailing Wind Direction:	SW	S
General Weather Conditions:	Clear	Cloudy

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	~70°F	~70°F
Barometric Pressure (in. Hg):	30.33	29.63

PID readings at sample location (ppmv): 0.2

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** NMT
Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? No **If yes, how long?**
Windows open? No **Ventilation fans?** No
Was there significant precipitation within 12 hours of (or during) the sampling event? Yes
Were any of the residents home during sampling? Yes **If yes, provide detail:** 1 adult residents
Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:**

Air intake at ~4'10".
Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.):

GEI Consultants

AMBIENT AIR SAMPLING CHECKLIST

Sampling Location:
34 Knowlton - Basement

Sample ID: 045163-34KNOW-B

Date: 12/18/2025 to 12/19/2025
Sampling personnel: N. Troccolo
Summa Canister ID: 5213
Flow Regulator ID: 03144
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 0835 (12/18/2025)
Sampling Finish Time: 0835 (12/19/2025)

Did Summa canister go to ambient pressure? Yes
Vacuum pressure reported by Laboratory: ---

	During Sampling	
	Time	**Vacuum**
12/18/2025	8:35	-30.28
12/19/2025	8:30	-14.58
	8:35	-14.52

Pressure gauge reading (Pre-opening): **Flow Controller:** -30.28 in. Hg (0.00 before opening)
Pressure gauge reading (After sample collected): **Flow Controller:** -14.52 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	32	54
Barometric Pressure (in. Hg):	30.33	29.63
Prevailing Wind Direction:	SW	S
General Weather Conditions:	Clear	Cloudy

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	~64°F	~64°F
Barometric Pressure (in. Hg):	30.33	29.63

PID readings at sample location (ppmv):	0.1	0.1-0.2

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** NMT
Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? No **If yes, how long?**
Windows open? No **Ventilation fans?** No
Was there significant precipitation within 12 hours of (or during) the sampling event? Yes
Were any of the residents home during sampling? Yes **If yes, provide detail:** 1 adult residents
Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:**

Air intake at ~4'10".
Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.):

GEI Consultants

SUB-SLAB SAMPLING CHECKLIST

Sampling Location: 34 Knowlton Street, Riser Pipe

Sample ID: 045163-34KNOW-SV-R

Date: 12/19/25

Sampling personnel: N. Troccolo

Summa Canister ID: 205

Flow Regulator ID: 01541

Sample Type / Analysis Method: TO-15

Sampling Start Time: 0900

Sampling Finish Time: 1000

Did Summa Canister go to ambient pressure? No

During Sampling	
Time	**Vacuum**
9:00	-30.07
9:15	-25.00
9:30	-19.54
9:45	-13.89
10:00	-8.27

Pressure gauge reading (Pre-opening): **Flow Controller:** 0.00 --> -30.07 in.Hg

Pressure gauge reading (After sample collected): **Flow Controller:** -8.27 --> 0.00 in.Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature:	54°F	56
Barometric Pressure:	29.64	29.58
Prevailing Wind Direction:	S	S
General Weather Conditions:	Cloudy/Rain	Rain

Photographs taken before sampling? Yes **If Yes, what time:** 0900 **Taken by:** NMT

Vacuum prior to sampling (in. WC): 0.000

Ambient air concentration (ppm): 0.1-0.2

Soil gas concentration prior to sampling (ppm): 0.0

Vapor point purged for ~5 min **with a MiniRAE 3000 (500-600 cc/min) prior to sampling.**

Comments:

- sample collected from monitoring point installed on the riser pipe in the basement of the sub-slab passive venting system
- passive venting system shutdown valve was open during sampling

GEI Consultants

AMBIENT AIR SAMPLING CHECKLIST

Sampling Location:
19-19A Morton - First Floor

Sample ID: 045163-19MORT-1

Date: 12/18/2025 to 12/19/2025
Sampling personnel: N. Troccolo
Summa Canister ID: 5514
Flow Regulator ID: 02627
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 0705 (12/18/2025)
Sampling Finish Time: 0705 (12/19/2025)

Did Summa canister go to ambient pressure? No
Vacuum pressure reported by Laboratory: ---

	During Sampling	
	Time	**Vacuum**
12/18/2025	7:05	-30.62
12/19/2025	7:00	-12.04
	7:05	-12.00

Pressure gauge reading (Pre-opening): **Flow Controller:** -30.62 in. Hg (0.00 before opening)
Pressure gauge reading (After sample collected): **Flow Controller:** -12.00 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	30	52
Barometric Pressure (in. Hg):	30.29	29.72
Prevailing Wind Direction:	W	S
General Weather Conditions:	Clear	Rain/Cloudy

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	~72	~70
Barometric Pressure (in. Hg):	30.29	29.72

PID readings at sample location (ppmv): 0.0 | 0-0.1

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** NMT
Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? No **If yes, how long?**
Windows open? No **Ventilation fans?** No
Was there significant precipitation within 12 hours of (or during) the sampling event? Yes
Were any of the residents home during sampling? Yes **If yes, provide detail:** Adult residents, cats
Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:**

Air intake at ~4'10".
Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.):

GEI Consultants

AMBIENT AIR SAMPLING CHECKLIST

Sampling Location:
19-19A Morton - Basement

Sample ID: 045163-19MORT-B

Date: 12/18/2025 to 12/19/2025
Sampling personnel: N. Troccolo
Summa Canister ID: 2695
Flow Regulator ID: 02044
Sample Type / Analysis Method: TO15/Summa
Sampling Start Time: 0710 (12/18/2025)
Sampling Finish Time: 0710 (12/19/2025)

Did Summa canister go to ambient pressure? No
Vacuum pressure reported by Laboratory: ---

	During Sampling	
	Time	**Vacuum**
12/18/2025	7:10	-30.64
12/19/2025	7:05	-12.98
	7:10	-12.92

Pressure gauge reading (Pre-opening): **Flow Controller:** -30.64 in. Hg (0.00 before opening)
Pressure gauge reading (After sample collected): **Flow Controller:** -12.92 in. Hg

Environmental Conditions (Outside):	**Before Sampling**	**After Sampling**
Temperature (°F):	30	52
Barometric Pressure (in. Hg):	30.29	29.72
Prevailing Wind Direction:	W	S
General Weather Conditions:	Clear	Rain/Cloudy

Environmental Conditions (At Sample Location):	**Before Sampling**	**After Sampling**
Temperature (°F):	~68	~68
Barometric Pressure (in. Hg):	30.29	29.72

PID readings at sample location (ppmv): 0.0 | 0-0.1

Photographs taken before sampling? Yes **If Yes, what time:** **Taken by:** NMT
Photographs taken after sampling? No **If Yes, what time:** **Taken by:**

Was the building aired out prior to sample collection? No **If yes, how long?**
Windows open? No **Ventilation fans?** No
Was there significant precipitation within 12 hours of (or during) the sampling event? Yes
Were any of the residents home during sampling? Yes **If yes, provide detail:** Adult residents, cats
Did any of the occupants NOT follow instruction for residents? No **If yes, describe below:**

Air intake at ~4'10".
Basement Ceiling Height (to joists): Front_____ ; Back_____.

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process. Also, note the usage of the basement (storage only, laundry, etc.):
- Paint cans and water proofing cans in basement

Appendix H Release Notification Form and Notification Retraction Letter for RTN 3-52237

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

RELEASE LOG FORM

Release Tracking Number
3-52237

RELEASE INFORMATION:

Release Log Type:
Reportable Release or TOR

RTN Number / Linked Complaint ID:

Release Notification Preparer:
Arsenault, Morgan

Notification Date: 7/28/2025

Knowledge Date: 7/28/2025

Threat of Release Date:

Notification Time: 2:08 PM

Knowledge Time: 12:10 PM

Threat of Release Time:

RELEASE LOCATION:

Location Name:
UNIFIRST DRY-CLEANING- 11 MORTON STREET

Street Address:
50 TUFTS STREET

City:
SOMERVILLE

Zip Code:
02145

Type of Location:
COMMERCIAL INDUSTRIAL

Latitude:
42.38218104

Longitude:
-71.08889485

RELEASE DETAILS:

O or HM Released	CAS#	Amount of Release	Units	RC Exceeded
TRICHLOROETHYLENE	00079-01-6	8.65	UG/M3	N/A

Type of Release:
LEAK RESULTING IN A RELEASE OF OHM
SPILL RESULTING IN A RELEASE OF OHM
UNKNOWN

Source of Release:
UNKNOWN

Notification Basis:
2 HOUR - RELEASE THAT POSES AN IMMINENT HAZARD

Media / Receptor :
RELEASE AFFECTING INDOOR AIR

Federal LUST Eligible:
NO

Federal Underground Storage No :

RELEASE DESCRIPTION:

I, Eric Marchese, received notification from Ileen Gladstone regarding elevated levels of trichloroethylene (TCE) in indoor air at 11 Morton Street, Somerville. Ms. Gladstone reported that, in addition to indoor air sampling, groundwater and soil gas samples were also collected and showed relatively low levels of TCE. She indicated that the elevated TCE levels in indoor air may be the result of a confounding source unrelated to the nearby Unifirst site with RTN 3-23246. She suggested that the source could potentially be associated with art supplies stored within the residence and plans to conduct further assessment to confirm the origin.

She plans on installing an air purifying unit to help control the levels.

REPORTING PERSON/ORGANIZATION:

Person First Name:	Person Last Name:	Organization Name:
ILEEN	GLADSTONE	
Phone Number:	**Relationship Category:**	**Relationship Type:**
7814249924	PRP REPRESENTATIVE	AGENT FOR PRP

INVOLVED PARTIES SUMMARY:

PRP Status:	If PRP is not Performing Response Actions, who is?:	PRP has communicated their intent to conduct an IRA:
PRP Performing Response Actions	Not Applicable	{{prp_date}}

RNF was requested from this PRP

CONTRACTOR:

Contractor First Name:	Contractor Last Name:	Contractor's Organization:
Contractor's Phone No:	**Contractor's Phone Ext:**	

LSP - LICENSED SITE PROFESSIONAL

LSP First Name	LSP Last Name	LSP #	LSP Telephone
ILEEN S	GLADSTONE	9719	7817214012

PRP or Person Performing Response Actions

PRP First Name	PRP Last name	PRP Organization Name	Title in Organization	City/Town	Phone Number	Email ID	Relationship of PRP to Release

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

RELEASE LOG FORM

Release Tracking Number
3-52237

SUBMITTED DATE & TIME:

8/1/2025 2:54:56 PM

September 24, 2025
Project 04516

VIA EMAIL: tduhl@mass.gov

Tiffany Duhl
Environmental Analyst, Site Management and Data Management
Massachusetts Department of Environmental Protection
150 Presidential Way
Woburn, MA 01801

Re: Notification Retraction
11 Morton Street, Somerville, Massachusetts
RTN 3-52237

Dear Tiffany:

The purpose of this letter is to retract the Imminent Hazard (IH) notification made by the UniFirst Corporation regarding 11 Morton Street, Somerville, Massachusetts (the Property) on July 28, 2025, in accordance with 310 CMR 40.0335. This retraction is being submitted because additional information was obtained that substantiates that a Site-related release, as defined by the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000), did not actually occur. The Release Notification Retraction Form (BWSC-103) for Release Tracking Number (RTN) 3-52237 is being submitted with this letter, and a copy is provided in Appendix A.

1. Background

Massachusetts Department of Environmental Protection's (MassDEP) December 2024 Notice of Audit Findings and Notice of Noncompliance ("NAFNON") regarding the 50 Tufts Street Disposal Site (RTN 3-23246) required UniFirst to conduct indoor air testing at nine[1] properties with passive venting systems, including the property located at 11 Morton Street. An Exposure Pathway Mitigation Measure (EPMM) was installed at the Property in September 2008 to mitigate the potential for vapors to enter the building from the subsurface. The EPMM is a passive sub-slab venting system, including a vapor barrier, and associated ventilation piping. Indoor air sampling was performed between October 2008 and May 2021 demonstrated that the EPMM was effective at mitigating a vapor intrusion pathway into the building and that there was not a complete vapor intrusion pathway.

On behalf of UniFirst and in response to the NAFNON, GEI conducted additional indoor air sampling at 11 Morton Street in April, May, and July 2025, and sub-slab soil gas sampling in July 2025.

1 The correct number of buildings is eight not nine, because 91 and 93 Franklin Street is a single building.

Trichloroethylene (TCE) was detected in indoor air on the first floor in each round of sampling, at 1.05 micrograms per cubic meter (µg/m^3), 2.77 µg/m^3, and 8.65 µg/m^3, respectively. The July concentration exceeded the IH level. While GEI did not expect that the TCE in indoor air was attributable to the 50 Tufts Street disposal site (RTN 3-23246), it nevertheless took the prudent step of reporting the concentration above the IH level and installing air purifying units (APUs) in the home while GEI assessed potential sources of the TCE. It was immediately apparent, even at the time of sampling, that at least one of the residents at 11 Morton Street is an artist, and there are numerous art supplies and cleaners in the house that could contribute to the TCE levels. GEI performed additional investigation of the property to determine the source of the TCE identified in indoor air.

2. Initial Indoor Air and Sub-Slab Soil Gas Sampling

On behalf of UniFirst and in response to the NAFNON, GEI conducted indoor air sampling at 11 Morton Street in April, May, and July 2025. Sub-slab soil gas sampling was also performed in July 2025 in furtherance of the investigation and evaluation of the property. Samples were collected using SUMMA® canisters and regulators provided by Alpha Analytical, Inc., an affiliate of Pace Laboratory (Alpha-Pace) of Westborough, Massachusetts. Each canister was certified clean by the laboratory. Copies of the certifications are in Appendix B. Indoor air samples were collected over an approximately 24-hour period. Sub-slab soil gas samples were collected over a 1-hour period.

The indoor air and sub-slab soil gas samples were submitted to Alpha-Pace for laboratory analysis by Environmental Protection Agency (EPA) Method TO-15 with the following modified list of analytes:

- 1,1-Dichloroethane
- 1,1-Dichloroethylene (1,1-DCE)
- trans-1,2-Dichloroethylene
- cis-1,2-Dichloroethylene
- 1,1,1-Trichloroethane (TCA)
- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloroethane
- Tetrachloroethylene (PCE)
- Trichloroethylene (TCE)
- Vinyl Chloride

The indoor air sampling results are summarized Table 1. The sub-slab soil gas sampling results are summarized in Table 2. Laboratory data reports are in Appendix B.

2.1. April and May 2025

On April 8, 2025, GEI collected one indoor air sample on the first floor and one from the finished portion of the basement. During sampling, the hardware used to collect the sample in the basement malfunctioned, and the sample could not be analyzed by the laboratory. We returned on May 7, 2025, to collect the basement indoor air sample along with an additional sample from the first floor.

TCE was detected in the indoor air on the first floor in both the April and May 2025 sampling events at concentrations of 1.05 µg/m^3 and 2.77 µg/m^3, respectively, and was detected at a concentration of 0.269 µg/m^3 in the basement during the May 2025 sampling.

In accordance with Massachusetts Department of Environmental Protection (MassDEP) protocols, GEI performed a risk assessment screening using the May 7, 2025, indoor air results. The risk assessment

screening demonstrates that the indoor air concentrations did not pose an IH and posed a condition of No Significant Risk (NSR) to a residential occupant based on a conservative assumed exposure duration of 24-hours per day.

2.2. July 2025

GEI returned in July 2025 to further investigate the potential source causing the detection of TCE in indoor air at 11 Morton Street. The lower concentrations of TCE identified in the basement as compared to those identified on the first floor suggested initially that the 50 Tufts Street Site was unlikely to be the source. Because there were no sub-slab soil gas monitoring points previously installed at 11 Morton Street, GEI could not further evaluate if the TCE was associated with the disposal site (RTN 3-23246) or due to confounding factors within the building. With the property owner's permission, GEI installed sub-slab soil gas monitoring points at the property to assist in the evaluation of the source of the TCE.

On July 16, 2025, GEI collected one indoor air sample on the first floor and one from the finished portion of the basement. After completion of the indoor air sampling, GEI installed two sub-slab soil gas monitoring points (SV1 and SV2) using Mini Vapor Pin® sampling devices in the concrete slab in the unfinished portion of the basement. Two sub-slab soil gas samples were then collected from the newly installed monitoring points.

TCE was detected in indoor air at a concentration of 8.65 µg/m^3 on the first floor and 6.88 µg/m^3 in the basement's finished side.

In sub-slab soil gas, TCE was detected at concentrations of 0.500 µg/m^3 and 1.55 µg/m^3 in SV1 and SV2, respectively.

The risk assessment screening demonstrated that the indoor air concentrations posed an IH to a residential occupant; GEI notified MassDEP of the IH on July 28, 2025. The release was assigned RTN 3-52237.

3. Post-Notification Activities

3.1. Inventory and Product Removal

Following the notification to MassDEP of the potential IH, GEI performed an inventory of chemicals on the first floor and in the basement of 11 Morton Street. Numerous art supplies and cleaners in the house were noted during the inventory, including spray fixatives used as a painting finisher, which have been established as a potential confounding source of TCE. These products were subsequently removed from the home temporarily on July 31, 2025, and stored outside in two sealed bins prior to additional testing.

3.2. APU installation

Based on the sub-slab soil gas, concentration gradient, and historical indoor air data collected at the property, it appeared unlikely that the concentrations of TCE in indoor air were associated with the 50 Tufts Street, RTN 3-23246, disposal site. However, out of an abundance of caution, GEI installed

two APUs in the home to mitigate the potential IH. On July 29, 2025, GEI installed one APU on the first floor. On August 6, 2025, GEI installed a second unit in the finished portion of the basement.

3.3. Indoor Air and Sub-Slab Soil Gas Sampling with APU On, August 2025

On August 21, 2025, after removal of the suspect painting products and supplies, while the APUs were running, one indoor air sample was collected on the first floor, and two indoor air samples were collected in the basement (one in the finished portion and one in the unfinished portion). After completion of indoor air sampling, two sub-slab soil gas samples were collected from the monitoring points installed in July 2025.

Previously, basement indoor air samples were only collected in the finished portion. However, to evaluate potential differences in concentrations of TCE or other chlorinated volatile organic compounds (CVOCs) between the finished and unfinished portions of the basement, a sample was also collected in the unfinished portion.

TCE was detected in indoor air at a concentration of 0.989 µg/m^3 on the first floor, 0.215 µg/m^3 in the basement's finished side and 0.124 µg/m^3 on the unfinished side. No other CVOCs were detected above laboratory reporting limits.

In sub-slab soil gas, TCE was detected at concentrations of 0.124 µg/m^3 and 0.736 µg/m^3 in SV1 and SV2, respectively.

After completion of indoor air and sub-slab soil gas sampling, the APUs were shut off in preparation for further testing.

3.4. Indoor Air and Sub-Slab Soil Gas Sampling with APU Off, August 2025

On August 29, 2025, after the APUs had been shut off for at least one week, one indoor air sample was collected on the first floor, and two from the basement (one each from the finished and unfinished areas). After completion of indoor air sampling, two sub-slab soil gas samples were collected from the monitoring points installed in July 2025.

TCE was detected in indoor air at a concentration of 6.56 µg/m^3 on the first floor, 4.11 µg/m^3 in the basement's finished side and 1.21 µg/m^3 on the unfinished side. PCE was not detected above laboratory limits. Trans-1,2-DCE, which was not detected in sub-slab soil gas, was once again detected above laboratory reporting limits but below the Residential Threshold Value (TV_R) at a concentration of 0.083 µg/m^3 on the basement's finished side.

In sub-slab soil gas, TCE was detected at concentrations of 0.204 µg/m^3 and 1.29 µg/m^3 in SV1 and SV2, respectively.

3.5. Draeger Tube Testing

On September 17, 2025, the suspect cleaning products, sealants, and art supplies were tested for the presence of TCE using a Draeger-Tubes® Accuro pump and Trichlorethylene 2/a short-term detector

tubes, which measure TCE between 2 and 250 parts per million (ppm), or 10,960 µg/m^3 to 1,370,000 µg/m^3, via a color-change reaction.

Draeger tubes are glass vials filled with chemical reagents that react with specific gases or vapors. If the target gas is present, the reagent inside the tube changes color. The length of the discoloration corresponds to the concentration of the gas, which can be read directly from the scale printed on the tube. For TCE, the scale begins at 2 ppm, well above the concentrations detected at the 11 Morton Street property.

The suspect cleaning products, sealants and art supplies were stored in two sealed plastic storage bins.

Bin #1 contained flooring polyurethane products, wood floor restore and finishing products, and wood floor waterproofing products. The bin had remained closed for more than one month in a storage shed outside. Air in the bin was sampled directly using the pump and detector tube. No discoloration was observed in the detector tube, indicating that TCE was not present.

Bin #2 contained aerosols including painting spray fixatives, painting retouch and varnish products, dust/lint remover, and oven cleaner. Upon arrival on September 17, we observed that the aerosol cans had been removed from the bin. The items were removed temporarily by the homeowner but were not brought back inside the residence. We replaced the cans in the bin and covered the bin allowing the headspace to develop for 30 minutes prior to testing. No discoloration was observed in the detector tube from this initial test. The fixatives were then sprayed on the inside surface of the bin, and the air was again tested. Minor discoloration was observed within the tip of the detector tube, but below 2 ppm. Following this observation, to test the fixative contents directly, the fixative was sprayed at the tip of a detector tube. This time, a larger portion of the detector tube was observed to be discolored, but below 2 ppm. Although in neither case did the length of the discoloration reach the minimum calibration marking (2 ppm), the Draeger tube detected TCE in the fixative spray.

A photo log of the Bins and Draeger detector tube results are included in Appendix C.

4. Discussion of the Results

TCE was detected in the indoor air in the basement and first floor at 11 Morton Street. Concentrations of TCE were detected during some of the sampling rounds that could pose an IH; however, an overall analysis of the data from the property suggests that the TCE is not associated with the 50 Tufts Street disposal site (RTN 3-23246). These contaminants are likely unrelated to the Site and instead result from confounding sources linked to the art supplies used by one of the residents, a professional artist, or some other unidentified confounding indoor air source, as supported by the following lines of evidence:

4.1. An EPMM is Installed in the Building

The vapor barrier and passive venting system (the EPMM) installed at the Property is effective at mitigating a complete vapor intrusion pathway. The vapor barrier, made of low-permeability materials, blocks diffusion and prevents sub-slab gases from seeping vertically through the slab. At the same time, the venting system installed beneath the slab relieves the pressure that drives vapors upward, creating a controlled pathway for the gases to move safely outdoors through the riser pipe where they quickly

disperse. This combination of the vapor barrier and venting system ensures that there is not a complete vapor intrusion pathway into the building, maintaining a condition of No Significant Risk.

4.2. Sub-slab Soil Gas

GEI collected sub-slab soil gas samples in July and August 2025 at 11 Morton Street. Samples were not collected during the April and May events because there were no existing soil gas sampling points installed at the property. The concentration of TCE in the six sub-slab soil gas samples ranged from 0.124 µg/m^3 to 1.55 µg/m^3, substantially less than the Residential Sub-Slab Soil Gas Screening Value (RSSGSV) for TCE, 28 µg/m^3.[2] The concentrations of TCE in indoor air (maximum 8.65 µg/m^3) are significantly more than the concentrations detected in soil gas.

The concentrations of PCE in soil gas in July and August 2025 ranged from 1.27 µg/m^3 to 21 µg/m^3, also substantially below the RSSGSV for PCE, 98 µg/m^3. Indoor air concentrations of PCE ranged from less than reporting limits to 0.203 µg/m^3, which is less than the TV_R (1.4 µg/m^3), indicating that there is not a complete vapor intrusion pathway and that the EPMM is effective under passive venting conditions.

4.3. Concentration of TCE is Greater on First Floor than Basement

The sampling results from 11 Morton Street consistently show that the concentration of TCE in indoor air is greater on the first floor than in the basement, and the concentration in the sub-slab soil gas is not high enough to result in the indoor air concentrations observed. This reverse gradient is apparent based on the data with or without the APUs running, indicating that the source of TCE is on the first floor:

Table 4-1. TCE Concentration

Sampling Location	May 7, 2025	July 16, 2025	August 21, 2025 (APU On)	May 7, 2025 (APU Off)
First floor (µg/m3)	2.77	8.65	0.989	6.56
Basement (µg/m3)	0.269	6.88	0.215/0.124*	4.11/1.21*
Soil gas (µg/m3)	NA	0.500/1.55^	0.124/0.736^	0.204/1.29^

Notes:
1. *Finished basement/unfinished basement results, both below first floor unit.
2. ^SV1/SV2 results

4.4. Historical TCE Testing

GEI collected indoor air samples in 2021 at the request of the previous owner to support the sale of the Property. At that time, prior to the current owner, TCE was detected in both the basement and first floor at concentrations of 0.301 µg/m^3 and 0.279 µg/m^3, respectively, which are less than the TV_R (0.4 µg/m^3). Indoor air samples were also collected in 2016, and TCE was not detected in the indoor air greater than the laboratory reporting limits (0.21 µg/m^3) in both the basement and on the first floor. Historical TCE

2 The low concentrations of TCE in soil gas are consistent with the soil gas collected upgradient across the street at 10 Morton Street between March 2023 and March 2025; At 10 Morton Street, the concentration in sixteen samples ranged from less than reporting limits to 0.258 µg/m3. Results are summarized in Table 3. Laboratory data reports are in Appendix B.

testing indicates that there was not a complete vapor intrusion pathway historically at 11 Morton Street before the current occupants.

4.5. Draeger Tube Testing

After removing the paints and art supplies from the property and storing them outside of the home in a plastic bin, TCE was detected in the Draeger tube when testing both the bin headspace with fixative sprayed on the surface, and when testing the fixative directly. The concentrations of TCE identified by the Draeger tube were less than the minimum calibrated concentration (2 ppm) on the tube, but nevertheless, the tool demonstrated that the fixative spray is a confounding source of TCE.

5. Conclusions

As a result of these observations, it is GEI's opinion that there is not an IH associated with the disposal site RTN 3-23246 at the 11 Morton Street property. By this letter and report, GEI and UniFirst therefore retract the previous July 28, 2025, notification to MassDEP in accordance with 310 CMR 40.0335(1).

As always, please feel free to reach out with any questions. You can reach me at 781.721.4012 or igladstone@geiconsultants.com.

Sincerely,

GEI Consultants, Inc.

Ileen Gladstone, P.E., LSP
Senior Vice President

Christopher O. Coner, CHMM
Project Manager

DJM/IG/COC:kmt
B:\Private\04516\19.0 Reports in Progress\19.82 11 Morton Street RNF Retraction\GEI_Report_11 Morton Retraction (4021133.1).docx

Enclosures

Tables	
Appendix A	Release Notification Retraction Form
Appendix B	Laboratory Data Reports
Appendix C	Photo Log – Draeger-Tubes® Testing

c: Catherine Malagrida, UniFirst Corporation
MassDEP Northeast Region

Tables

Table 1 - Chemical Testing Results - Post-EPMM Installation Indoor Air
11 Morton Street
Somerville, Massachusetts

		Sample Location:	11 Morton Street													
		Sample Name:	11 MORT-1		11 MORT-B		11MORT-1A		11MORT-1B		11MORT-B1		11MORT-B2		11MORT-1	
		Sample Date:	10/23/08		10/23/08		1/21/09		1/21/09		1/21/09		1/21/09		8/11/09	
		APU Status:	NA		NA		NA		NA		NA		NA		NA	
		Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values (µg/m3)**														
Volatile Organic Compounds (VOCs)	TO-15															
1,1,1-Trichloroethane (TCA)		3	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
1,2-Dichloroethane		0.09	**0.45 J**	**0.11 J**	**0.49 J**	**0.12 J**	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	**11**	**2.8**
Carbon tetrachloride		0.54	**0.63 J**	0.10 J	**0.69 J**	0.11 J	**0.88 J**	0.14 J	**0.82 J**	0.13 J	**1.6**	0.25	**1.5**	0.24	< 1.3	< 0.20
Tetrachloroethylene (PCE)		1.4	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
trans-1,2-Dichloroethene		0.8	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20
Trichloroethylene (TCE)		0.4	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. NT= Not tested
6. NS= No standard established
7. MassDEP = Massachusetts Department of Environmental Protection
8. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.
9. Highlighted sample indicates most recent sampling rounds.
10. The samples from January 21, 2009 (11MORT-B1 and B2, and 11MORT-1A and 1B) were field duplicates of each other.
11. The laboratory notes for 11MORT-B from April 2025 indicate that the canister ran ambient.
12. Art supplies used by the homeowner were removed on July 31, 2025
13. APU installed on the first floor on July 29, 2025, and in the finished portion of the basement on August 6, 2025.
14. APUs shutdown on 8/21/2025 following completion of sampling.
15. Values in bold exceed the applicable MassDEP Residential Threshold Values.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 1 - Chemical Testing Results - Post-EPMM Installation Indoor Air
11 Morton Street
Somerville, Massachusetts

		Sample Location:	11 Morton Street (continued)													
		Sample Name:	11MORT-B		11MORT-1		11MORT-B		11MORT-1		11MORT-B		11MORT-1		11MORT-B	
		Sample Date:	8/11/09		2/23/10		2/23/10		2/17/16		2/17/16		5/26/21		5/26/21	
		APU Status:	NA		NA		NA		NA		NA		NA		NA	
		Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m3	ppbv	µg/m3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values (µg/m3)**														
Volatile Organic Compounds (VOCs)	TO-15															
1,1,1-Trichloroethane (TCA)		3	< 1.1	< 0.20	1.3	0.24	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	<0.109	<0.020	<0.109	<0.020
1,2-Dichloroethane		0.09	**2.0**	**0.49**	< 0.81	< 0.20	< 0.81	< 0.20	NT	NT	NT	NT	NT	NT	NT	NT
Carbon tetrachloride		0.54	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		1.4	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	**1.7**	0.25	**2.2**	0.33	0.190	0.028	<0.136	<0.020
trans-1,2-Dichloroethene		0.8	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.79	< 0.20	<0.079	<0.020	<0.079	<0.020
Trichloroethylene (TCE)		0.4	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 0.21	< 0.040	< 0.21	< 0.040	0.279	0.052	0.301	0.056

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. NT= Not tested
6. NS= No standard established
7. MassDEP = Massachusetts Department of Environmental Protection
8. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.
9. Highlighted sample indicates most recent sampling rounds.
10. The samples from January 21, 2009 (11MORT-B1 and B2, and 11MORT-1A and 1B) were field duplicates of each other.
11. The laboratory notes for 11MORT-B from April 2025 indicate that the canister ran ambient.
12. Art supplies used by the homeowner were removed on July 31, 2025
13. APU installed on the first floor on July 29, 2025, and in the finished portion of the basement on August 6, 2025.
14. APUs shutdown on 8/21/2025 following completion of sampling.
15. Values in bold exceed the applicable MassDEP Residential Threshold Values.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 1 - Chemical Testing Results - Post-EPMM Installation Indoor Air
11 Morton Street
Somerville, Massachusetts

		Sample Location:	11 Morton Street (continued)																					
		Sample Name:	11MORT-1		11MORT-F1		11MORT-B		11MORT-F1		11MORT-B		11MORT-F1		11MORT-B-Fin		11MORT-B-Unfin		11MORT-F1		11MORT-B-Fin		11MORT-B-Unfin	
		Sample Date:	4/8/25		5/7/25		5/7/25		7/16/25		7/16/25		8/21/25		8/21/25		8/21/25		8/29/25		8/29/25		8/29/25	
		APU Status:	NA		NA		NA		NA		NA		ON		ON		ON		OFF		OFF		OFF	
		Units:	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv	µg/m3	ppbv
Analyte	**Method**	**MassDEP Residential Threshold Values (µg/m3)**																						
Volatile Organic Compounds (VOCs)	TO-15																							
1,1,1-Trichloroethane (TCA)		3	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020
1,2-Dichloroethane		0.09	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Carbon tetrachloride		0.54	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		1.4	<0.136	<0.020	0.203	0.030	0.217	0.032	0.149	0.022	0.149	0.022	<0.136	<0.020	<0.136	<0.020	<0.136	<0.020	<0.136	<0.020	<0.136	<0.020	<0.136	<0.020
trans-1,2-Dichloroethene		0.8	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	0.135	0.034	0.135	0.034	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	0.083	0.021	<0.079	<0.020
Trichloroethylene (TCE)		0.4	**1.05**	0.196	**2.77**	**0.516**	0.269	0.05	**8.65**	**1.61**	**6.88**	**1.28**	**0.989**	0.184	0.215	0.040	0.124	0.023	**6.56**	**1.22**	**4.11**	**0.765**	**1.21**	0.225

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. EPMM = Exposure Pathway Mitigation Measure.
5. NT= Not tested
6. NS= No standard established
7. MassDEP = Massachusetts Department of Environmental Protection
8. Residential Threshold Values for indoor air taken from the Massachusetts Department of Environmental Protection (MassDEP) "Vapor Intrusion Guidance: Site Assessment, Mitigation and Closure" dated October 2016.
9. Highlighted sample indicates most recent sampling rounds.
10. The samples from January 21, 2009 (11MORT-B1 and B2, and 11MORT-1A and 1B) were field duplicates of each other.
11. The laboratory notes for 11MORT-B from April 2025 indicate that the canister ran ambient.
12. Art supplies used by the homeowner were removed on July 31, 2025
13. APU installed on the first floor on July 29, 2025, and in the finished portion of the basement on August 6, 2025.
14. APUs shutdown on 8/21/2025 following completion of sampling.
15. Values in bold exceed the applicable MassDEP Residential Threshold Values.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 2 - Chemical Testing Results Sub-Slab Soil Vapor
11 Morton Street
Somerville, Massachusetts

Sample Location:			11 Morton Street															
EPMM Status			Pre-EPMM				Post-EPMM											
Sample Name:			11 MORT-SS1		11 MORT-SS2		11-MORT-SV1		11-MORT-SV2		11-MORT-SV1		11-MORT-SV2		11-MORT-SV1		11-MORT-SV2	
Sample Date:			3/21/2007		3/21/2007		7/16/2025		7/16/2025		8/21/2025		8/21/2025		8/29/2025		8/29/2025	
Units:			ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv
Analyte	**Method**	**Residential Sub-Slab Soil Gas Screening Values (µg/m^3)**																
Volatile Organic Compounds (VOCs)	TO-15																	
1,1,1-Trichloroethane (TCA)		210	8.2	1.5	<1.1	<0.20	0.267	0.049	0.136	0.025	0.366	0.067	0.256	0.047	0.267	0.049	0.267	0.049
1,1,2,2-Tetrachloroethane		2.8	<1.4	<0.20	<1.4	<0.20	<0.137	<0.020	<0.137	<0.020	<0.137	<0.020	<0.137	<0.020	<0.137	<0.020	<0.137	<0.020
1,1,2-Trichloroethane		10	<1.1	<0.20	<1.1	<0.20	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020
1,1-Dichloroethane		56	0.85	0.21	<0.81	<0.20	<0.081	<0.020	<0.081	<0.020	<0.081	<0.020	<0.081	<0.020	<0.081	<0.020	<0.081	<0.020
1,1-Dichloroethene		56	1.2	0.31	<0.79	<0.20	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020
1,2-Dichloroethane		6.3	<0.81	<0.20	<0.81	<0.20	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Carbon tetrachloride		38	<1.3	<0.20	<1.3	<0.20	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloroethane		NS	<0.53	<0.20	<0.53	<0.20	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
cis-1,2-Dichloroethene		56	<0.79	<0.20	<0.79	<0.20	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020
Tetrachloroethylene (PCE)		98	403	59.5	1.6	0.23	1.57	0.232	21.0	3.10	1.27	0.188	20.0	2.95	1.49	0.219	20.8	3.06
trans-1,2-Dichloroethene		56	<0.79	<0.20	<0.79	<0.20	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020
Trichloroethylene (TCE)		28	9.7	1.8	<1.1	<0.20	0.500	0.093	1.55	0.289	0.124	0.023	0.736	0.137	0.204	0.038	1.29	0.24
Vinyl Chloride		19	<0.51	<0.20	<0.51	<0.20	0.151	0.059	0.138	0.054	<0.051	<0.020	<0.051	<0.020	<0.051	<0.020	<0.051	<0.020

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT= Not tested
6. Highlighted sample indicates most recent sampling rounds.
7. New soil vapor points installed in July 2025.

Table 3 - Summary of Sub-Slab Soil Vapor Testing Results
10 Morton Street
Somerville, Massachusetts

Sample Location:			Pre-Renovation																	
			10 Morton Street																	
Sample Name:			10Mort- SG1		10MORT-SV1		10MORT-SV2		10MORT-SV3		10MORT-SV4		10MORT-SV1		10MORT-SV2		10MORT-SV3		10MORT-SV4	
Sample Date:			5/9/2007		3/8/2023		3/8/2023		3/8/2023		3/8/2023		3/31/2023		3/31/2023		3/31/2023		3/31/2023	
Collected by:			GEI		GEI		GEI		GEI		GEI		GEI		GEI		GEI		GEI	
Units:			µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**	**Residential Sub-Slab Soil Gas Screening Values (µg/m^3)**																		
Volatile Organic Compounds (VOCs)	TO-15																			
cis-1,2-Dirchloroethylene (cis-1,2-DCE)		56	<0.79	<0.20	0.083	0.021	0.115	0.029	<0.079	<0.020	<0.079	<0.020	<0.40	<0.10	<0.40	<0.10	<0.40	<0.10	<0.40	<0.10
trans-1,2-Dirchloroethylene (trans-1,2-DCE)		56	<0.79	<0.20	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.40	<0.10	<0.40	<0.10	<0.40	<0.10	<0.40	<0.10
Tetrachloroethylene (PCE)		98	4.0	0.59	1.06	0.156	1.32	0.194	0.183	0.027	0.292	0.043	<0.68	<0.10	<0.68	<0.10	<0.68	<0.10	<0.68	<0.10
1,1,1-Trichloroethane		210	1.2	0.22	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.55	<0.10	<0.55	<0.10	<0.55	<0.10	<0.55	<0.10
Trichloroethylene (TCE)		28	<1.1	<0.20	<0.107	<0.020	0.258	0.048	<0.107	<0.020	<0.107	<0.020	<0.54	<0.10	<0.54	<0.10	<0.54	<0.10	<0.54	<0.10

General Notes

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. Concentrations in Bold exceed the Residential Sub-Slab Soil Gas Screening Values.
5. Results highlighted are the most recent samples collected.

Table 3 - Summary of Sub-Slab Soil Vapor Testing Results
10 Morton Street
Somerville, Massachusetts

			Pre-Renovation								Post-Renovation							
Sample Location:			10 Morton Street								10 Morton Street							
Sample Name:			10MORT-SV1		10MORT-SV2		10MORT-SV3		10MORT-SV4		10MORT-SV5		10MORT-SV6		10MORT-SV5		10MORT-SV6	
Sample Date:			4/24/2023		4/24/2023		4/24/2023		4/24/2023		10/9/2024		10/9/2024		3/18/2025		3/18/2025	
Collected by:			GEI		GEI		GEI		GEI		GEI		GEI		GEI		GEI	
Units:			µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**	**Residential Sub-Slab Soil Gas Screening Values (µg/m³)**																
Volatile Organic Compounds (VOCs)	TO-15																	
cis-1,2-Dirchloroethylene (cis-1,2-DCE)		56	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	0.153	0.039	0.107	0.027	<0.079	<0.020	<0.079	<0.020
trans-1,2-Dirchloroethylene (trans-1,2-DCE)		56	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	<0.079	<0.020	**336**	**84.7**	**291**	**63.0**	12.8	3.24	13.8	3.48
Tetrachloroethylene (PCE)		98	0.353	0.052	0.407	0.060	1.22	0.180	0.285	0.042	12.6	1.86	16.3	2.40	1.17	0.172	5.78	0.853
1,1,1-Trichloroethane		210	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020	<0.201	<0.037	<0.109	<0.020	<0.109	<0.020	<0.109	<0.020
Trichloroethylene (TCE)		28	<0.107	<0.020	<0.107	<0.020	<0.107	<0.020	<0.107	<0.020	0.228	0.042	<0.107	<0.020	<0.107	<0.020	<0.107	<0.020

General Notes

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. Concentrations in Bold exceed the Residential Sub-Slab Soil Gas Screening Values.
5. Results highlighted are the most recent samples collected.

Appendix A Release Notification Retraction Form

Massachusetts Department of Environmental Protection

eDEP Transaction Copy

Here is the file you requested for your records.

To retain a copy of this file you must save and/or print.

Username:	**DJMILLER**
Transaction ID:	**1937634**
Document:	**BWSC103 Release Notification & Retraction Form**
Size of File:	**163.04K**
Status of Transaction:	**In Process**
Date and Time Created:	**9/17/2025:3:14:02 PM**

Note: This file only includes forms that were part of your transaction as of the date and time indicated above. If you need a more current copy of your transaction, return to eDEP and select to “Download a Copy” from the Current Submittals page.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

RELEASE NOTIFICATION & NOTIFICATION RETRACTION FORM

Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart C)

BWSC 103

Release Tracking Number
3 - 52237

A. RELEASE OR THREAT OF RELEASE LOCATION:

1. Release Name/Location Aid: UNIFIRST DRY-CLEANING- 11 MORTON STREET

2. Street Address: 50 TUFTS STREET

3. City/Town: SOMERVILLE 4. ZIP Code: 021450000

5. Coordinates: a. Latitude: N _____ b. Longitude: W _____

B. THIS FORM IS BEING USED TO: (check one)

☐ 1. Submit a **Release Notification**

☐ 2. Submit a **Revised Release Notification**

☑ 3. Submit a **Retraction of a Previously Reported Notification** of a release or threat of release including supporting documentation required pursuant to 310 CMR 40.0335 (Section C is not required)

(All sections of this transmittal form must be filled out unless otherwise noted above)

DRAFT COPY

C. INFORMATION DESCRIBING THE RELEASE OR THREAT OF RELEASE (TOR):

1. Date and time of Oral Notification, if applicable: _____ mm/dd/yyyy Time: _____ hh:mm ☐ AM ☐ PM

2. Date and time you obtained knowledge of the Release or TOR: _____ mm/dd/yyyy Time: _____ hh:mm ☐ AM ☐ PM

3. Date and time release or TOR occurred, if known: _____ mm/dd/yyyy Time: _____ hh:mm ☐ AM ☐ PM

Check all Notification Thresholds that apply to the Release or Threat of Release:
(for more information see 310 CMR 40.0310 - 40.0315)

4. 2 HOUR REPORTING CONDITIONS	5. 72 HOUR REPORTING CONDITIONS	120 DAY REPORTING CONDITIONS
☐ a. Sudden Release	☐ a. Subsurface Non-Aqueous Phase Liquid (NAPL) Equal to or Greater than 1/2 Inch (.04 feet)	☐ a. Release of Hazardous Material(s) to Soil or Groundwater Exceeding Reportable Concentration(s)
☐ b. Threat of Sudden Release	☐ b. Underground Storage Tank (UST) Release	☐ b. Release of Oil to Soil Exceeding Reportable Concentration(s) and Affecting More than 2 Cubic Yards
☐ c. Oil Sheen on Surface Water	☐ c. Threat of UST Release	☐ c. Release of Oil to Groundwater Exceeding Reportable Concentration(s)
☐ d. Poses Imminent Hazard	☐ d. Release to Groundwater near Water Supply	☐ d. Subsurface Non-Aqueous Phase Liquid (NAPL) Equal to or Greater than 1/8 Inch (.01 feet) and Less than 1/2 Inch (.04 feet)
☐ e. Could Pose Imminent Hazard	☐ e. Substantial Release Migration	
☐ f. Release Detected in Private Well		
☐ g. Release to Storm Drain		
☐ h. Sanitary Sewer Release (Imminent Hazard Only)		

C. INFORMATION DESCRIBING THE RELEASE OR THREAT OF RELEASE (TOR): (cont.)

7. List below the Oils (O) or Hazardous Materials (HM) that exceed their Reportable Concentration (RC) or Reportable Quantity (RQ) by the greatest amount.

☐ Check here if an amount or concentration is unknown or less than detectable.

O or HM Released	CAS Number, if known	O or HM	Amount or Concentration	Units	RCs Exceeded, if Applicable (RCS-1, RCS-2,RCGW-1, RCGW-2)

☐ Check here if a list of additional Oil and Hazardous Materials subject to reporting, or any other documentation relating to this notification is attached.

D. PERSON REQUIRED TO NOTIFY:

1. Check all that apply: ☐ a. change in contact name ☐ b. change of address ☐ c. change in the person notifying

DRAFT COPY

2. Name of Organization: UNIFIRST CORPORATION

3. Contact First Name: CATHERINE 4. Last Name: MALAGRIDA

5. Street: 68 JONSPIN RD 6. Title: ENV COMPLIANCE MANAGER

7. City/Town: WILMINGTON 8. State: MA 9. ZIP Code: 018871090

10. Telephone: 978-658-8888 11. Ext.: 12. Email: catherine_malagrida@unifirst.com

☐ 13. Check here if attaching names and addresses of owners of properties affected by the Release or Threat of Release, other than an owner who is submitting this Release Notification (required).

E. RELATIONSHIP OF PERSON TO RELEASE OR THREAT OF RELEASE: ☐ Check here to change relationship

☑ 1. RP or PRP ☐ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter

☑ e. Other RP or PRP Specify: NON-SPECIFIED PRP

☐ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

☐ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

☐ 4. Any Other Person Otherwise Required to Notify Specify Relationship:

F. CERTIFICATION OF PERSON REQUIRED TO NOTIFY:

1. I, _____, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By : _____ (Signature)

3. Title: ENV COMPLIANCE MANAGER

4. For: UNIFIRST CORPORATION (Name of person or entity recorded in Section D)

5. Date : _____ mm/dd/yyyy

☐ 6. Check here if the address of the person providing certification is different from address recorded in Section D.

7. Street: _____

8. City/Town: _____ 9. State: _____ 10. ZIP Code: _____

11. Telephone: _____ 12. Ext.: _____ 13. Email: _____

YOU ARE SUBJECT TO ANNUAL COMPLIANCE ASSURANCE FEES FOR EACH BILLABLE YEAR FOR TIER CLASSIFIED DISPOSAL SITES. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

DRAFT COPY

Date Stamp (DEP USE ONLY:)

Appendix B Laboratory Data Reports

ANALYTICAL REPORT

Lab Number:	L2522887
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	TUFTS ST.
Project Number:	045163
Report Date:	04/25/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NH ELAP (2249).

120 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.pacelabs.com

Project Name: TUFTS ST.
Project Number: 045163

Lab Number: L2522887
Report Date: 04/25/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2522887-01	045163-11MORT-1	AIR	SOMERVILLE, MA	04/08/25 09:11	04/09/25
L2522887-02	045163-11MORT-B	AIR	SOMERVILLE, MA	04/08/25 09:12	04/09/25

Project Name: TUFTS ST. **Lab Number:** L2522887

Project Number: 045163 **Report Date:** 04/25/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	NO
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	TUFTS ST.	**Lab Number:**	L2522887
Project Number:	045163	**Report Date:**	04/25/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	TUFTS ST.	**Lab Number:**	L2522887
Project Number:	045163	**Report Date:**	04/25/25

Case Narrative (continued)

MCP Related Narratives

Canisters were released from the laboratory on February 13, 2025. The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

In reference to questions E b/I:

All samples were analyzed for a subset of the MCP compounds per the Chain of Custody.

Sample Receipt

L2522887-02: The sample has an RPD for the pre- and post-flow controller calibration check (29% RPD) outside of the control limit of 20%. The final pressure of the associated canister recorded by the laboratory was 1.1 inches of mercury. No further action was required.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 04/25/25

QC OUTLIER SUMMARY REPORT

Project Name: TUFTS ST.
Project Number: 045163

Lab Number: L2522887
Report Date: 04/25/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment

There are no QC Outliers associated with this report.

AIR

Project Name: TUFTS ST.
Project Number: 045163

Lab Number: L2522887
Report Date: 04/25/25

SAMPLE RESULTS

Lab ID: L2522887-01
Client ID: 045163-11MORT-1
Sample Location: SOMERVILLE, MA

Date Collected: 04/08/25 09:11
Date Received: 04/09/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 04/25/25 00:37
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.196	0.020	--	1.05	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	96		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	106		60-140

Project Name: TUFTS ST.
Project Number: 045163

Lab Number: L2522887
Report Date: 04/25/25

SAMPLE RESULTS

Lab ID: L2522887-02
Client ID: 045163-11MORT-B
Sample Location: SOMERVILLE, MA

Date Collected: 04/08/25 09:12
Date Received: 04/09/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 04/25/25 01:15
Analyst: TPH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	95		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	98		60-140

Project Name: TUFTS ST.
Project Number: 045163
Lab Number: L2522887
Report Date: 04/25/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15-SIM
Analytical Date: 04/24/25 18:06

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab for sample(s): 01-02 Batch: WG2058378-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS ST.
Project Number: 045163

Lab Number: L2522887
Report Date: 04/25/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-02 Batch: WG2058378-3								
Vinyl chloride	89		-		70-130	-		
1,1-Dichloroethene	77		-		70-130	-		
trans-1,2-Dichloroethene	104		-		70-130	-		
1,1-Dichloroethane	103		-		70-130	-		
cis-1,2-Dichloroethene	103		-		70-130	-		
1,1,1-Trichloroethane	102		-		70-130	-		
Trichloroethene	96		-		70-130	-		
1,1,2-Trichloroethane	95		-		70-130	-		
Tetrachloroethene	96		-		70-130	-		
1,1,2,2-Tetrachloroethane	99		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: TUFTS ST.
Project Number: 045163

Lab Number: L2522887
Report Date: 04/25/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-02 QC Batch ID: WG2058378-5 QC Sample: L2522887-02 Client ID: 045163-11MORT-B						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Tetrachloroethene	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25

Project Name: TUFTS ST.

Project Number: 045163

Lab Number: L2522887

Report Date: 04/25/25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2522887-01	045163-11MORT-1	01133	Flow 5	02/13/25	505312		-	-	-	Pass	3.0	3.0	0
L2522887-01	045163-11MORT-1	984	6.0L Can	02/13/25	505312	L2507313-08	Pass	-29.7	-6.1	-	-	-	-
L2522887-02	045163-11MORT-B	01919	Flow 5	02/13/25	505312		-	-	-	Pass	3.0	4.0	29
L2522887-02	045163-11MORT-B	4747	6.0L Can	02/13/25	505312	L2507313-08	Pass	-29.7	1.1	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2507313
Report Date: 04/25/25

Air Canister Certification Results

Lab ID: L2507313-08
Client ID: CAN 2465 SHELF 43
Sample Location:

Date Collected: 02/11/25 10:00
Date Received: 02/11/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/12/25 01:30
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2507313
Report Date: 04/25/25

Air Canister Certification Results

Lab ID: L2507313-08
Client ID: CAN 2465 SHELF 43
Sample Location:

Date Collected: 02/11/25 10:00
Date Received: 02/11/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2507313

Project Number: CANISTER QC BAT **Report Date:** 04/25/25

Air Canister Certification Results

Lab ID: L2507313-08
Client ID: CAN 2465 SHELF 43
Sample Location:

Date Collected: 02/11/25 10:00
Date Received: 02/11/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2507313
Report Date: 04/25/25

Air Canister Certification Results

Lab ID: L2507313-08
Client ID: CAN 2465 SHELF 43
Sample Location:

Date Collected: 02/11/25 10:00
Date Received: 02/11/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2507313

Project Number: CANISTER QC BAT **Report Date:** 04/25/25

Air Canister Certification Results

Lab ID: L2507313-08
Client ID: CAN 2465 SHELF 43
Sample Location:

Date Collected: 02/11/25 10:00
Date Received: 02/11/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	92		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2507313

Project Number: CANISTER QC BAT **Report Date:** 04/25/25

Air Canister Certification Results

Lab ID: L2507313-08
Client ID: CAN 2465 SHELF 43
Sample Location:

Date Collected: 02/11/25 10:00
Date Received: 02/11/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/12/25 01:30
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2507313
Report Date: 04/25/25

Air Canister Certification Results

Lab ID: L2507313-08
Client ID: CAN 2465 SHELF 43
Sample Location:

Date Collected: 02/11/25 10:00
Date Received: 02/11/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2507313
Report Date: 04/25/25

Air Canister Certification Results

Lab ID: L2507313-08
Client ID: CAN 2465 SHELF 43
Sample Location:

Date Collected: 02/11/25 10:00
Date Received: 02/11/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	89		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	93		60-140

Project Name: TUFTS ST.
Project Number: 045163

Lab Number: L2522887
Report Date: 04/25/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2522887-01A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2522887-02A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name:	TUFTS ST.	**Lab Number:**	L2522887
Project Number:	045163	**Report Date:**	04/25/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	TUFTS ST.	**Lab Number:**	L2522887
Project Number:	045163	**Report Date:**	04/25/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	TUFTS ST.	**Lab Number:**	L2522887
Project Number:	045163	**Report Date:**	04/25/25

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: TUFTS ST.
Project Number: 045163
Lab Number: L2522887
Report Date: 04/25/25

REFERENCES

101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

GEI

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

ALPHA ANALYTICAL
320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 4/9/25

ALPHA Job #: L2522887

Client Information

Client: GEI Consultants
Address: 400 Unicorn Park Drive
Woburn, MA 01801
Phone: 781-721-4000
Fax:
Email: labdata@geiconsultants.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Tufts St.
Project Location: Somerville, MA
Project #: 045163
Project Manager: Chris Conor
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☑ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH Subtract Non-petroleum HCs	Fixed Gases	Sulfides & Mercaptans by TO-15 ☐	Sample Comments (i.e. PID)
22887-01	045163-11MORT-1	4/8/25	0916	0911	-30.55	-6.67	IA	JWG	6L	984	01133	X					see attached list of analytes
02	045163-11MORT-B	4/8/25	0920	0912	-30.63	-0.16	IA	JWG	6L	4747	01919	X					

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
Jillian Jungk	4/8/25 1006	GEI Field Room	4/8/25 1006
GEI Field Room	4/9/25 1208		4/9/25 1208
	4/9/25 1208		4.9.25 1208
Rob Maerk	4.9.25 1825	Rob Maerk	4/9/25 1825
			4/9/25 1830

Indoor Air Sampling Analyte List

- 1,1-Dichloroethane
- 1,1-Dichloroethylene
- trans-1,2-Dichloroethylene
- cis-1,2-Dichloroethylene
- 1,1,1-Trichloroethane
- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloroethane
- Tetrachloroethylene
- Trichloroethylene
- Vinyl Chloride

ANALYTICAL REPORT

Lab Number:	L2528265
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	TUFTS ST
Project Number:	045163
Report Date:	05/27/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NH ELAP (2249).

120 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.pacelabs.com

Project Name: TUFTS ST
Project Number: 045163

Lab Number: L2528265
Report Date: 05/27/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2528265-01	045163-11MORT-F1	AIR	SOMERVILLE,MA	05/07/25 09:03	05/07/25
L2528265-02	045163-11MORT-B	AIR	SOMERVILLE,MA	05/07/25 09:07	05/07/25

Project Name: TUFTS ST
Project Number: 045163
Lab Number: L2528265
Report Date: 05/27/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	NO
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	TUFTS ST	**Lab Number:**	L2528265
Project Number:	045163	**Report Date:**	05/27/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: TUFTS ST
Project Number: 045163
Lab Number: L2528265
Report Date: 05/27/25

Case Narrative (continued)

MCP Related Narratives

Canisters were released from the laboratory on April 30, 2025. The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

In reference to questions E b/I:

All samples were analyzed for a subset of the MCP compounds per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Jennifer Jerome

Title: Technical Director/Representative Date: 05/27/25

QC OUTLIER SUMMARY REPORT

Project Name: TUFTS ST
Project Number: 045163

Lab Number: L2528265
Report Date: 05/27/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment

There are no QC Outliers associated with this report.

AIR

Project Name: TUFTS ST
Project Number: 045163

Lab Number: L2528265
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2528265-01
Client ID: 045163-11MORT-F1
Sample Location: SOMERVILLE,MA

Date Collected: 05/07/25 09:03
Date Received: 05/07/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 05/19/25 01:55
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.516	0.020	--	2.77	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.030	0.020	--	0.203	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	87		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	92		60-140

Project Name: TUFTS ST
Project Number: 045163

Lab Number: L2528265
Report Date: 05/27/25

SAMPLE RESULTS

Lab ID: L2528265-02
Client ID: 045163-11MORT-B
Sample Location: SOMERVILLE,MA

Date Collected: 05/07/25 09:07
Date Received: 05/07/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 05/19/25 02:37
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.050	0.020	--	0.269	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.032	0.020	--	0.217	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	85		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	87		60-140

Project Name: TUFTS ST
Project Number: 045163
Lab Number: L2528265
Report Date: 05/27/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15-SIM
Analytical Date: 05/18/25 18:34

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab for sample(s): 01-02 Batch: WG2068148-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS ST
Project Number: 045163

Lab Number: L2528265
Report Date: 05/27/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-02 Batch: WG2068148-3								
Vinyl chloride	96		-		70-130	-		
1,1-Dichloroethene	99		-		70-130	-		
trans-1,2-Dichloroethene	95		-		70-130	-		
1,1-Dichloroethane	96		-		70-130	-		
cis-1,2-Dichloroethene	101		-		70-130	-		
1,1,1-Trichloroethane	103		-		70-130	-		
Trichloroethene	98		-		70-130	-		
1,1,2-Trichloroethane	89		-		70-130	-		
Tetrachloroethene	113		-		70-130	-		
1,1,2,2-Tetrachloroethane	96		-		70-130	-		

Project Name: TUFTS ST

Project Number: 045163

Lab Number: L2528265

Report Date: 05/27/25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2528265-01	045163-11MORT-F1	0245	Flow 5	04/30/25	518339		-	-	-	Pass	2.9	3.2	10
L2528265-01	045163-11MORT-F1	2809	6.0L Can	04/30/25	518339	L2525122-10	Pass	-29.6	-8.4	-	-	-	-
L2528265-02	045163-11MORT-B	02261	Flow 5	04/30/25	518339		-	-	-	Pass	3.2	3.6	12
L2528265-02	045163-11MORT-B	3144	6.0L Can	04/30/25	518339	L2525122-10	Pass	-29.6	-10.6	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2525122
Report Date: 05/27/25

Air Canister Certification Results

Lab ID: L2525122-10
Client ID: CAN 1547 SHELF 58
Sample Location:

Date Collected: 04/24/25 10:00
Date Received: 04/24/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/27/25 23:49
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2525122
Report Date: 05/27/25

Air Canister Certification Results

Lab ID: L2525122-10
Client ID: CAN 1547 SHELF 58
Sample Location:

Date Collected: 04/24/25 10:00
Date Received: 04/24/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2525122
Report Date: 05/27/25

Air Canister Certification Results

Lab ID: L2525122-10
Client ID: CAN 1547 SHELF 58
Sample Location:

Date Collected: 04/24/25 10:00
Date Received: 04/24/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2525122
Report Date: 05/27/25

Air Canister Certification Results

Lab ID: L2525122-10
Client ID: CAN 1547 SHELF 58
Sample Location:

Date Collected: 04/24/25 10:00
Date Received: 04/24/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2525122
Report Date: 05/27/25

Air Canister Certification Results

Lab ID: L2525122-10
Client ID: CAN 1547 SHELF 58
Sample Location:

Date Collected: 04/24/25 10:00
Date Received: 04/24/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	101		60-140
chlorobenzene-d5	100		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2525122
Report Date: 05/27/25

Air Canister Certification Results

Lab ID: L2525122-10
Client ID: CAN 1547 SHELF 58
Sample Location:

Date Collected: 04/24/25 10:00
Date Received: 04/24/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/27/25 23:49
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2525122
Report Date: 05/27/25

Air Canister Certification Results

Lab ID: L2525122-10
Client ID: CAN 1547 SHELF 58
Sample Location:

Date Collected: 04/24/25 10:00
Date Received: 04/24/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2525122
Report Date: 05/27/25

Air Canister Certification Results

Lab ID: L2525122-10
Client ID: CAN 1547 SHELF 58
Sample Location:

Date Collected: 04/24/25 10:00
Date Received: 04/24/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	102		60-140
chlorobenzene-d5	99		60-140

Project Name: TUFTS ST
Project Number: 045163

Lab Number: L2528265
Report Date: 05/27/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2528265-01A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2528265-02A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name:	TUFTS ST	**Lab Number:**	L2528265
Project Number:	045163	**Report Date:**	05/27/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	TUFTS ST	**Lab Number:**	L2528265
Project Number:	045163	**Report Date:**	05/27/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: *Data Usability Report*

Project Name:	TUFTS ST	**Lab Number:**	L2528265
Project Number:	045163	**Report Date:**	05/27/25

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: TUFTS ST
Project Number: 045163
Lab Number: L2528265
Report Date: 05/27/25

REFERENCES

101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

Serial_No:05272517:12

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

ALPHA ANALYTICAL
320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 5/7/25

ALPHA Job #: L2528265

Client Information

Client: GEI Consultants
Address: 400 Unicorn Park Dr.
Woburn, MA 01801
Phone: 781-721-4000
Fax:
Email: labdata@geiconsultants.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Tufts St
Project Location: Somerville, MA
Project #: 045163
Project Manager: Chris Coner
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☒

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH Subtract Non-petroleum HC's	Fixed Gases	Sulfides & Mercaptans by TO-15	☐	Sample Comments (i.e. PID)
28265-01	045163-11Mort-FI	5/7/25	0903	0903	-30.76	-8.60	IA	DJM	GL	2809	0245		X					see attached analyte list
02	045163-11Mort-B	5/7/25	0907	0907	-30.57	-11.14	IA	DJM	GL	3144	02261		X					

ANALYSIS

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
[signature]	5/7/25 1140	[signature] PACE	5/7/25 1140
[signature] PACE	5/7/25 1717	[signature]	5/7/25 1717
[signature] ASL	5/7/25 1930	[signature] ASL	5/7/25 1553
[signature]	5/7/25 2113	[signature]	5/7/25 2110

Tufts Street IA/SV Analyte List

- Vinyl chloride
- 1,1-Dichloroethene
- trans-1,2-Dichloroethane
- 1,1-Dichloroethane
- cis-1,2-Dichloroethene
- 1,1,1-Trichloroethane
- Trichloroethene
- 1,1,2-Trichloroethane
- Tetrachloroethene
- 1,1,2,2-Tetrachloroethane

ANALYTICAL REPORT

Lab Number:	L2545026
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	TUFTS STREET
Project Number:	045163
Report Date:	07/24/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NH ELAP (2249).

120 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.pacelabs.com

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2545026
Report Date: 07/24/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2545026-01	045163-11MORT-F1	AIR	SOMERVILLE, MA	07/16/25 10:09	07/17/25
L2545026-02	045163-11MORT-B	AIR	SOMERVILLE, MA	07/16/25 10:05	07/17/25
L2545026-03	045163-11MORT-SV1	SOIL_VAPOR	SOMERVILLE, MA	07/16/25 12:58	07/17/25
L2545026-04	045163-11MORT-SV2	SOIL_VAPOR	SOMERVILLE, MA	07/16/25 12:59	07/17/25

Project Name: TUFTS STREET **Lab Number:** L2545026

Project Number: 045163 **Report Date:** 07/24/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	NO
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	TUFTS STREET	**Lab Number:**	L2545026
Project Number:	045163	**Report Date:**	07/24/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	TUFTS STREET	**Lab Number:**	L2545026
Project Number:	045163	**Report Date:**	07/24/25

Case Narrative (continued)

MCP Related Narratives

Canisters were released from the laboratory on July 14, 2025. The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

In reference to questions E b/I:

All samples were analyzed for a subset of the MCP compounds per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 07/24/25

QC OUTLIER SUMMARY REPORT

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2545026
Report Date: 07/24/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment

There are no QC Outliers associated with this report.

AIR

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2545026
Report Date: 07/24/25

SAMPLE RESULTS

Lab ID: L2545026-01
Client ID: 045163-11MORT-F1
Sample Location: SOMERVILLE, MA

Date Collected: 07/16/25 10:09
Date Received: 07/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 07/24/25 01:09
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	0.034	0.020	--	0.135	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	1.61	0.020	--	8.65	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.022	0.020	--	0.149	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	83		60-140
bromochloromethane	84		60-140
chlorobenzene-d5	85		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2545026
Report Date: 07/24/25

SAMPLE RESULTS

Lab ID: L2545026-02
Client ID: 045163-11MORT-B
Sample Location: SOMERVILLE, MA

Date Collected: 07/16/25 10:05
Date Received: 07/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 07/24/25 01:48
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	0.034	0.020	--	0.135	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	1.28	0.020	--	6.88	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.022	0.020	--	0.149	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	86		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	86		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2545026
Report Date: 07/24/25

SAMPLE RESULTS

Lab ID: L2545026-03
Client ID: 045163-11MORT-SV1
Sample Location: SOMERVILLE, MA

Date Collected: 07/16/25 12:58
Date Received: 07/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 07/24/25 02:28
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	0.059	0.020	--	0.151	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.049	0.020	--	0.267	0.109	--		1
Trichloroethene	0.093	0.020	--	0.500	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.232	0.020	--	1.57	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	86		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	85		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2545026
Report Date: 07/24/25

SAMPLE RESULTS

Lab ID: L2545026-04
Client ID: 045163-11MORT-SV2
Sample Location: SOMERVILLE, MA

Date Collected: 07/16/25 12:59
Date Received: 07/17/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 07/24/25 03:08
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	0.054	0.020	--	0.138	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.025	0.020	--	0.136	0.109	--		1
Trichloroethene	0.289	0.020	--	1.55	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	3.10	0.020	--	21.0	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	87		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	85		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2545026
Report Date: 07/24/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15-SIM
Analytical Date: 07/23/25 19:10

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab for sample(s): 01-04 Batch: WG2094266-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2545026
Report Date: 07/24/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-04 Batch: WG2094266-3								
Vinyl chloride	105		-		70-130	-		
1,1-Dichloroethene	115		-		70-130	-		
trans-1,2-Dichloroethene	113		-		70-130	-		
1,1-Dichloroethane	108		-		70-130	-		
cis-1,2-Dichloroethene	108		-		70-130	-		
1,1,1-Trichloroethane	101		-		70-130	-		
Trichloroethene	105		-		70-130	-		
1,1,2-Trichloroethane	96		-		70-130	-		
Tetrachloroethene	117		-		70-130	-		
1,1,2,2-Tetrachloroethane	122		-		70-130	-		

Project Name: TUFTS STREET

Project Number: 045163

Lab Number: L2545026

Report Date: 07/24/25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2545026-01	045163-11MORT-F1	02983	Flow 5	07/14/25	528698		-	-	-	Pass	3.0	3.1	3
L2545026-01	045163-11MORT-F1	5310	6.0L Can	07/14/25	528698	L2542224-03	Pass	-29.4	-9.2	-	-	-	-
L2545026-02	045163-11MORT-B	02441	Flow 5	07/14/25	528698		-	-	-	Pass	3.0	3.2	6
L2545026-02	045163-11MORT-B	4329	6.0L Can	07/14/25	528698	L2542224-03	Pass	-29.5	-6.2	-	-	-	-
L2545026-03	045163-11MORT-SV1	01610	Flow 2	07/14/25	528698		-	-	-	Pass	36.3	39.2	8
L2545026-03	045163-11MORT-SV1	2793	2.7L Can	07/14/25	528698	L2542592-06	Pass	-29.4	-4.6	-	-	-	-
L2545026-04	045163-11MORT-SV2	01561	Flow 2	07/14/25	528698		-	-	-	Pass	36.1	37.3	3
L2545026-04	045163-11MORT-SV2	139	2.7L Can	07/14/25	528698	L2542592-06	Pass	-29.4	-6.6	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2542224
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542224-03
Client ID: CAN 5605 SHELF 46
Sample Location:

Date Collected: 07/07/25 15:00
Date Received: 07/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/08/25 18:41
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2542224
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542224-03
Client ID: CAN 5605 SHELF 46
Sample Location:

Date Collected: 07/07/25 15:00
Date Received: 07/08/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2542224
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542224-03
Client ID: CAN 5605 SHELF 46
Sample Location:

Date Collected: 07/07/25 15:00
Date Received: 07/08/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2542224
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542224-03
Client ID: CAN 5605 SHELF 46
Sample Location:

Date Collected: 07/07/25 15:00
Date Received: 07/08/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2542224

Project Number: CANISTER QC BAT **Report Date:** 07/24/25

Air Canister Certification Results

Lab ID: L2542224-03
Client ID: CAN 5605 SHELF 46
Sample Location:

Date Collected: 07/07/25 15:00
Date Received: 07/08/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	101		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2542224
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542224-03
Client ID: CAN 5605 SHELF 46
Sample Location:

Date Collected: 07/07/25 15:00
Date Received: 07/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/08/25 18:41
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	0.073	0.050	--	0.167	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2542224
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542224-03
Client ID: CAN 5605 SHELF 46
Sample Location:

Date Collected: 07/07/25 15:00
Date Received: 07/08/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2542224
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542224-03
Client ID: CAN 5605 SHELF 46
Sample Location:

Date Collected: 07/07/25 15:00
Date Received: 07/08/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	102		60-140
chlorobenzene-d5	100		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2542592
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542592-06
Client ID: CAN 492 SHELF 9
Sample Location:

Date Collected: 07/09/25 10:00
Date Received: 07/09/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/09/25 23:49
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2542592
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542592-06
Client ID: CAN 492 SHELF 9
Sample Location:

Date Collected: 07/09/25 10:00
Date Received: 07/09/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2542592
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542592-06
Client ID: CAN 492 SHELF 9
Sample Location:

Date Collected: 07/09/25 10:00
Date Received: 07/09/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2542592
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542592-06
Client ID: CAN 492 SHELF 9
Sample Location:

Date Collected: 07/09/25 10:00
Date Received: 07/09/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2542592

Project Number: CANISTER QC BAT **Report Date:** 07/24/25

Air Canister Certification Results

Lab ID: L2542592-06
Client ID: CAN 492 SHELF 9
Sample Location:

Date Collected: 07/09/25 10:00
Date Received: 07/09/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	87		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2542592

Project Number: CANISTER QC BAT **Report Date:** 07/24/25

Air Canister Certification Results

Lab ID: L2542592-06
Client ID: CAN 492 SHELF 9
Sample Location:

Date Collected: 07/09/25 10:00
Date Received: 07/09/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/09/25 23:49
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2542592
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542592-06
Client ID: CAN 492 SHELF 9
Sample Location:

Date Collected: 07/09/25 10:00
Date Received: 07/09/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2542592
Report Date: 07/24/25

Air Canister Certification Results

Lab ID: L2542592-06
Client ID: CAN 492 SHELF 9
Sample Location:

Date Collected: 07/09/25 10:00
Date Received: 07/09/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	101		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	97		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2545026
Report Date: 07/24/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2545026-01A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2545026-02A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2545026-03A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2545026-04A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name:	TUFTS STREET	**Lab Number:**	L2545026
Project Number:	045163	**Report Date:**	07/24/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2545026
Project Number:	045163	**Report Date:**	07/24/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: *Data Usability Report*

Project Name:	TUFTS STREET	**Lab Number:**	L2545026
Project Number:	045163	**Report Date:**	07/24/25

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2545026
Report Date: 07/24/25

REFERENCES

101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

Serial_No:07242516:42

AIR ANALYSIS

PAGE 1 OF 1

Pace ANALYTICAL SERVICES

CHAIN OF CUSTODY

120 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 7-17-25

Pace® Job #: L2545026

Client Information

Client: GEI Consultants
Address: 400 Unicorn Park Drive
Woburn MA 01801
Phone: 781 721 4000
Fax:
Email: labdata@geiconsultants.com
☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Tufts Street
Project Location: Somerville, MA
Project #: 045163
Project Manager: Chris Coles
Pace® Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☒ see attached analyte list

All Columns Below Must Be Filled Out

PACE Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH Subset Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
45026 -01	045163-11Mont-F1	7/16/25	1009	1009	-30.27	-9.50	IA	DJM	6L	5310	02983	X					
-02	045163-11Mont-B	7/16/25	1005	1005	-30.30	-6.45	IA	DJM	6L	4529	02441	X					
-03	045163-11Mont-SV1	7/16/25	1158	1258	-30.11	-5.25	SV	DJM	2.7L	2793	01610	X					
-04	045163-11Mont-SV2	7/16/25	1159	1259	-30.09	-7.41	SV	DJM	2.7L	139	01561	X					

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambi-guties are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
Daniel Mott	7/16/25 14:00	GEI Field Room	7/16/25 14:00
GEI Field Room	7/17/25 14:30	Daniel Mott	7/17/25 14:30
Daniel Mott	7/17/25 14:54		7/17/25 14:30
O/PACE	7/17/25 17:20	Mendoza ASC	7/17/25 17:20

Form No: 101-05 Rev: (25-Sep-15)

Tufts Street IA/SV Analyte List

- Vinyl chloride
- 1,1-Dichloroethene
- trans-1,2-Dichloroethane
- 1,1-Dichloroethane
- cis-1,2-Dichloroethene
- 1,1,1-Trichloroethane
- Trichloroethene
- 1,1,2-Trichloroethane
- Tetrachloroethene
- 1,1,2,2-Tetrachloroethane

Serial_No:07242516:42

Sample Delivery Group Summary

Pace Job Number : L2545026

Account Name : GEI Consultants
Project Number : 045163
Project Name : TUFTS STREET

Received : 17-JUL-2025
Reviewer : Christopher J Anderson

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Present/Intact/NA			

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**YES**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NA**

ANALYTICAL REPORT

Lab Number:	L2553156
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	TUFTS STREET
Project Number:	045163
Report Date:	08/29/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NH ELAP (2249).

120 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.pacelabs.com

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2553156
Report Date: 08/29/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2553156-01	045163-11MORT-F1	AIR	SOMERVILLE, MA	08/21/25 09:17	08/22/25
L2553156-02	045163-11MORT-B-FIN	AIR	SOMERVILLE, MA	08/21/25 09:19	08/22/25
L2553156-03	045163-11MORT-B-UNFIN	AIR	SOMERVILLE, MA	08/21/25 09:21	08/22/25
L2553156-04	045163-11MORT-SV-1	SOIL_VAPOR	SOMERVILLE, MA	08/21/25 11:51	08/22/25
L2553156-05	045163-11MORT-SV-2	SOIL_VAPOR	SOMERVILLE, MA	08/21/25 11:58	08/22/25

Project Name: TUFTS STREET **Lab Number:** L2553156

Project Number: 045163 **Report Date:** 08/29/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	NO
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	TUFTS STREET	**Lab Number:**	L2553156
Project Number:	045163	**Report Date:**	08/29/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2553156
Report Date: 08/29/25

Case Narrative (continued)

MCP Related Narratives

Canisters were released from the laboratory on August 18, 2025. The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

In reference to questions E b/I:

All samples were analyzed for a subset of the MCP compounds per the Chain of Custody.

Sample Receipt

L2553156-02: The sample has an RPD for the pre- and post-flow controller calibration check (22% RPD) outside of the control limit of 20%. The final pressure of the associated canister recorded by the laboratory was -4.9 inches of mercury. No further action was required.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 08/29/25

QC OUTLIER SUMMARY REPORT

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2553156
Report Date: 08/29/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment

There are no QC Outliers associated with this report.

AIR

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2553156
Report Date: 08/29/25

SAMPLE RESULTS

Lab ID: L2553156-01
Client ID: 045163-11MORT-F1
Sample Location: SOMERVILLE, MA

Date Collected: 08/21/25 09:17
Date Received: 08/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 08/27/25 20:55
Analyst: BJB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.184	0.020	--	0.989	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	100		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	103		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2553156
Report Date: 08/29/25

SAMPLE RESULTS

Lab ID: L2553156-02
Client ID: 045163-11MORT-B-FIN
Sample Location: SOMERVILLE, MA

Date Collected: 08/21/25 09:19
Date Received: 08/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 08/27/25 21:35
Analyst: BJB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.040	0.020	--	0.215	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	97		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	99		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2553156
Report Date: 08/29/25

SAMPLE RESULTS

Lab ID: L2553156-03
Client ID: 045163-11MORT-B-UNFIN
Sample Location: SOMERVILLE, MA

Date Collected: 08/21/25 09:21
Date Received: 08/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 08/27/25 22:16
Analyst: BJB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.023	0.020	--	0.124	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	100		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	102		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2553156
Report Date: 08/29/25

SAMPLE RESULTS

Lab ID: L2553156-04
Client ID: 045163-11MORT-SV-1
Sample Location: SOMERVILLE, MA

Date Collected: 08/21/25 11:51
Date Received: 08/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 08/29/25 04:09
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.067	0.020	--	0.366	0.109	--		1
Trichloroethene	0.023	0.020	--	0.124	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.188	0.020	--	1.27	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	97		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	124		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2553156
Report Date: 08/29/25

SAMPLE RESULTS

Lab ID: L2553156-05
Client ID: 045163-11MORT-SV-2
Sample Location: SOMERVILLE, MA

Date Collected: 08/21/25 11:58
Date Received: 08/22/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 08/29/25 04:48
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.047	0.020	--	0.256	0.109	--		1
Trichloroethene	0.137	0.020	--	0.736	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	2.95	0.020	--	20.0	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	98		60-140
bromochloromethane	103		60-140
chlorobenzene-d5	124		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2553156
Report Date: 08/29/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15-SIM
Analytical Date: 08/27/25 20:15

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab for sample(s): 01-03 Batch: WG2108087-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2553156
Report Date: 08/29/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15-SIM
Analytical Date: 08/28/25 18:39

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab for sample(s): 04-05 Batch: WG2108592-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2553156
Report Date: 08/29/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-03 Batch: WG2108087-3								
Vinyl chloride	92		-		70-130	-		
1,1-Dichloroethene	86		-		70-130	-		
trans-1,2-Dichloroethene	83		-		70-130	-		
1,1-Dichloroethane	83		-		70-130	-		
cis-1,2-Dichloroethene	83		-		70-130	-		
1,1,1-Trichloroethane	105		-		70-130	-		
Trichloroethene	95		-		70-130	-		
1,1,2-Trichloroethane	102		-		70-130	-		
Tetrachloroethene	95		-		70-130	-		
1,1,2,2-Tetrachloroethane	108		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2553156
Report Date: 08/29/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 04-05 Batch: WG2108592-3								
Vinyl chloride	79		-		70-130	-		
1,1-Dichloroethene	91		-		70-130	-		
trans-1,2-Dichloroethene	91		-		70-130	-		
1,1-Dichloroethane	91		-		70-130	-		
cis-1,2-Dichloroethene	88		-		70-130	-		
1,1,1-Trichloroethane	112		-		70-130	-		
Trichloroethene	112		-		70-130	-		
1,1,2-Trichloroethane	111		-		70-130	-		
Tetrachloroethene	116		-		70-130	-		
1,1,2,2-Tetrachloroethane	125		-		70-130	-		

Project Name: TUFTS STREET

Project Number: 045163

Lab Number: L2553156

Report Date: 08/29/25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2553156-01	045163-11MORT-F1	01212	Flow 5	08/18/25	532652		-	-	-	Pass	3.0	3.4	13
L2553156-01	045163-11MORT-F1	2977	6.0L Can	08/18/25	532652	L2546019-03	Pass	-29.3	-6.7	-	-	-	-
L2553156-02	045163-11MORT-B-FIN	01258	Flow 5	08/18/25	532652		-	-	-	Pass	3.2	4.0	22
L2553156-02	045163-11MORT-B-FIN	1692	6.0L Can	08/18/25	532652	L2548010-01	Pass	-29.6	-4.9	-	-	-	-
L2553156-03	045163-11MORT-B-UNFIN	02441	Flow 5	08/18/25	532652		-	-	-	Pass	3.0	3.0	0
L2553156-03	045163-11MORT-B-UNFIN	3288	6.0L Can	08/18/25	532652	L2547847-09	Pass	-29.6	-6.3	-	-	-	-
L2553156-04	045163-11MORT-SV-1	01037	Flow 2	08/18/25	532652		-	-	-	Pass	35.7	40.2	12
L2553156-04	045163-11MORT-SV-1	3441	2.7L Can	08/18/25	532652	L2549067-01	Pass	-29.6	-6.4	-	-	-	-
L2553156-05	045163-11MORT-SV-2	02094	Flow 2	08/18/25	532652		-	-	-	Pass	35.8	39.3	9
L2553156-05	045163-11MORT-SV-2	3415	2.7L Can	08/18/25	532652	L2549067-01	Pass	-29.5	-5.3	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2546019
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2546019-03
Client ID: CAN 1518 SHELF 72
Sample Location:

Date Collected: 07/22/25 15:00
Date Received: 07/23/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/23/25 20:26
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2546019
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2546019-03
Client ID: CAN 1518 SHELF 72
Sample Location:

Date Collected: 07/22/25 15:00
Date Received: 07/23/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2546019
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2546019-03
Client ID: CAN 1518 SHELF 72
Sample Location:

Date Collected: 07/22/25 15:00
Date Received: 07/23/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2546019
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2546019-03
Client ID: CAN 1518 SHELF 72
Sample Location:

Date Collected: 07/22/25 15:00
Date Received: 07/23/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2546019
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2546019-03
Client ID: CAN 1518 SHELF 72
Sample Location:

Date Collected: 07/22/25 15:00
Date Received: 07/23/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
Acetamide, N,N-dimethyl-	3.6	NJ	ppbV		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	101		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2546019
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2546019-03
Client ID: CAN 1518 SHELF 72
Sample Location:

Date Collected: 07/22/25 15:00
Date Received: 07/23/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/23/25 20:26
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2546019

Project Number: CANISTER QC BAT **Report Date:** 08/29/25

Air Canister Certification Results

Lab ID: L2546019-03
Client ID: CAN 1518 SHELF 72
Sample Location:

Date Collected: 07/22/25 15:00
Date Received: 07/23/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2546019
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2546019-03
Client ID: CAN 1518 SHELF 72
Sample Location:

Date Collected: 07/22/25 15:00
Date Received: 07/23/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	103		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2547847
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2547847-09
Client ID: CAN 2291 SHELF 123
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/01/25 02:47
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2547847
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2547847-09
Client ID: CAN 2291 SHELF 123
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2547847
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2547847-09
Client ID: CAN 2291 SHELF 123
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2547847
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2547847-09
Client ID: CAN 2291 SHELF 123
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2547847

Project Number: CANISTER QC BAT **Report Date:** 08/29/25

Air Canister Certification Results

Lab ID: L2547847-09
Client ID: CAN 2291 SHELF 123
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	84		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2547847

Project Number: CANISTER QC BAT **Report Date:** 08/29/25

Air Canister Certification Results

Lab ID: L2547847-09
Client ID: CAN 2291 SHELF 123
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/01/25 02:47
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2547847
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2547847-09
Client ID: CAN 2291 SHELF 123
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2547847
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2547847-09
Client ID: CAN 2291 SHELF 123
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	88		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	85		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2548010
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2548010-01
Client ID: CAN 1549 SHELF 125
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/31/25 20:57
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2548010
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2548010-01
Client ID: CAN 1549 SHELF 125
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2548010
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2548010-01
Client ID: CAN 1549 SHELF 125
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2548010
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2548010-01
Client ID: CAN 1549 SHELF 125
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2548010

Project Number: CANISTER QC BAT **Report Date:** 08/29/25

Air Canister Certification Results

Lab ID: L2548010-01
Client ID: CAN 1549 SHELF 125
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	86		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2548010
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2548010-01
Client ID: CAN 1549 SHELF 125
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/31/25 20:57
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2548010
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2548010-01
Client ID: CAN 1549 SHELF 125
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2548010
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2548010-01
Client ID: CAN 1549 SHELF 125
Sample Location:

Date Collected: 07/31/25 10:00
Date Received: 07/31/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	89		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	87		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2549067
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2549067-01
Client ID: CAN 1727 SHELF 3
Sample Location:

Date Collected: 08/05/25 15:00
Date Received: 08/06/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/06/25 19:16
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2549067
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2549067-01
Client ID: CAN 1727 SHELF 3
Sample Location:

Date Collected: 08/05/25 15:00
Date Received: 08/06/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2549067
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2549067-01
Client ID: CAN 1727 SHELF 3
Sample Location:

Date Collected: 08/05/25 15:00
Date Received: 08/06/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2549067
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2549067-01
Client ID: CAN 1727 SHELF 3
Sample Location:

Date Collected: 08/05/25 15:00
Date Received: 08/06/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2549067

Project Number: CANISTER QC BAT **Report Date:** 08/29/25

Air Canister Certification Results

Lab ID: L2549067-01
Client ID: CAN 1727 SHELF 3
Sample Location:

Date Collected: 08/05/25 15:00
Date Received: 08/06/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	102		60-140
Bromochloromethane	105		60-140
chlorobenzene-d5	103		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2549067
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2549067-01
Client ID: CAN 1727 SHELF 3
Sample Location:

Date Collected: 08/05/25 15:00
Date Received: 08/06/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/06/25 19:16
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2549067
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2549067-01
Client ID: CAN 1727 SHELF 3
Sample Location:

Date Collected: 08/05/25 15:00
Date Received: 08/06/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2549067
Report Date: 08/29/25

Air Canister Certification Results

Lab ID: L2549067-01
Client ID: CAN 1727 SHELF 3
Sample Location:

Date Collected: 08/05/25 15:00
Date Received: 08/06/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	96		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2553156
Report Date: 08/29/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2553156-01A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2553156-02A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2553156-03A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2553156-04A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2553156-05A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name:	TUFTS STREET	**Lab Number:**	L2553156
Project Number:	045163	**Report Date:**	08/29/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2553156
Project Number:	045163	**Report Date:**	08/29/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2553156
Project Number:	045163	**Report Date:**	08/29/25

Data Qualifiers

ND	- Not detected at the reporting limit (RL) for the sample.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
Q	- The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
S	- Analytical results are from modified screening analysis.
V	- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
Z	- The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2553156
Report Date: 08/29/25

REFERENCES

101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY kY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
MA M-MA00030, CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

Pace ANALYTICAL SERVICES

CHAIN OF CUSTODY

120 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 8/22/25

Pace® Job #: L2553156

Client Information

Client: GEI Consultants
Address: 400 Unicorn Park Drive
Woburn, MA 01801
Phone: 781-721-4000
Fax:
Email: labdata@geiconsultants.com
☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Tufts St
Project Location: Somerville, MA
Project #: 045163
Project Manager: Chris Coner
Pace® Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☒ See attached analyte list

All Columns Below Must Be Filled Out

PACE Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH Subtract Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
53156-01	045163-11Mort-F1	8/21/25	0917	0917	-30.54	-7.10	IA	JWG	6L	2977	01212	X					
02	045163-11Mort-B-Fin	8/21/25	0919	0919	-30.31	-5.31	IA	JWG	6L	1692	01258	X					
03	045163-11Mort-B-Unfin	8/21/25	0921	0921	-30.24	-6.76	IA	JWG	6L	3288	02411	X					
04	045163-11Mort-SV-1	8/21/25	1051	1151	-29.94	-7.02	SV	JWG	2.7L	3411	01037	X					
05	045163-11Mort-SV-2	8/21/25	1058	1158	-30.15	-6.11	SV	JWG	2.7L	3415	02094	X					

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambi-guities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
Jillian Gruff	8/21/25 1320	GEI Field Room	8/21/25 1320
GEI Field Room	8/22/25 1220	Jun Dai	8/22/25 1225
Jun Dai	8/22/25 1230	Pace	8/22/25 12:30
Pace	8/22/25 15:16		8/22/25 1519

8/22/25 1651

Tufts Street IA/SV Analyte List

- Vinyl chloride
- 1,1-Dichloroethene
- trans-1,2-Dichloroethane
- 1,1-Dichloroethane
- cis-1,2-Dichloroethene
- 1,1,1-Trichloroethane
- Trichloroethene
- 1,1,2-Trichloroethane
- Tetrachloroethene
- 1,1,2,2-Tetrachloroethane

Sample Delivery Group Summary

Pace Job Number : L2553156

Account Name : GEI Consultants
Project Number : 045163
Project Name : TUFTS STREET

Received : 22-AUG-2025
Reviewer : Christopher J Anderson

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Present/Intact/NA			

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**YES**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NA**

ANALYTICAL REPORT

Lab Number:	L2555013
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	TUFTS STREET
Project Number:	045163
Report Date:	09/05/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NH ELAP (2249).

120 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.pacelabs.com

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2555013
Report Date: 09/05/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2555013-01	045163-11MORT-F1	AIR	SOMERVILLE, MA	08/29/25 08:40	09/02/25
L2555013-02	045163-11MORT-B-FIN	AIR	SOMERVILLE, MA	08/29/25 09:05	09/02/25
L2555013-03	045163-11MORT-B-UNFIN	AIR	SOMERVILLE, MA	08/29/25 09:08	09/02/25
L2555013-04	045163-11MORT-SV-1	SOIL_VAPOR	SOMERVILLE, MA	08/29/25 10:12	09/02/25
L2555013-05	045163-11MORT-SV-2	SOIL_VAPOR	SOMERVILLE, MA	08/29/25 10:15	09/02/25

Project Name:	TUFTS STREET	**Lab Number:**	L2555013
Project Number:	045163	**Report Date:**	09/05/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	NO
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	TUFTS STREET	**Lab Number:**	L2555013
Project Number:	045163	**Report Date:**	09/05/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2555013
Report Date: 09/05/25

Case Narrative (continued)

MCP Related Narratives

Canisters were released from the laboratory on August 27, 2025. The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

In reference to questions E b/I:

All samples were analyzed for a subset of the MCP compounds per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Jennifer Jerome

Title: Technical Director/Representative Date: 09/05/25

QC OUTLIER SUMMARY REPORT

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2555013
Report Date: 09/05/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment

There are no QC Outliers associated with this report.

AIR

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2555013
Report Date: 09/05/25

SAMPLE RESULTS

Lab ID: L2555013-01
Client ID: 045163-11MORT-F1
Sample Location: SOMERVILLE, MA

Date Collected: 08/29/25 08:40
Date Received: 09/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 09/04/25 00:51
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	1.22	0.020	--	6.56	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	83		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	85		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2555013
Report Date: 09/05/25

SAMPLE RESULTS

Lab ID: L2555013-02
Client ID: 045163-11MORT-B-FIN
Sample Location: SOMERVILLE, MA

Date Collected: 08/29/25 09:05
Date Received: 09/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 09/04/25 01:33
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	0.021	0.020	--	0.083	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.765	0.020	--	4.11	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	79		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	79		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2555013
Report Date: 09/05/25

SAMPLE RESULTS

Lab ID: L2555013-03
Client ID: 045163-11MORT-B-UNFIN
Sample Location: SOMERVILLE, MA

Date Collected: 08/29/25 09:08
Date Received: 09/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 09/04/25 03:04
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.225	0.020	--	1.21	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	88		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	85		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2555013
Report Date: 09/05/25

SAMPLE RESULTS

Lab ID: L2555013-04
Client ID: 045163-11MORT-SV-1
Sample Location: SOMERVILLE, MA

Date Collected: 08/29/25 10:12
Date Received: 09/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 09/04/25 03:45
Analyst: RAY

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.049	0.020	--	0.267	0.109	--		1
Trichloroethene	0.038	0.020	--	0.204	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.219	0.020	--	1.49	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	90		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	90		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2555013
Report Date: 09/05/25

SAMPLE RESULTS

Lab ID: L2555013-05
Client ID: 045163-11MORT-SV-2
Sample Location: SOMERVILLE, MA

Date Collected: 08/29/25 10:15
Date Received: 09/02/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 09/04/25 04:27
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.049	0.020	--	0.267	0.109	--		1
Trichloroethene	0.240	0.020	--	1.29	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	3.06	0.020	--	20.8	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	79		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	79		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2555013
Report Date: 09/05/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15-SIM
Analytical Date: 09/03/25 20:40

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab for sample(s): 01-05 Batch: WG2110380-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2555013
Report Date: 09/05/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-05 Batch: WG2110380-3								
Vinyl chloride	86		-		70-130	-		
1,1-Dichloroethene	81		-		70-130	-		
trans-1,2-Dichloroethene	80		-		70-130	-		
1,1-Dichloroethane	78		-		70-130	-		
cis-1,2-Dichloroethene	78		-		70-130	-		
1,1,1-Trichloroethane	96		-		70-130	-		
Trichloroethene	80		-		70-130	-		
1,1,2-Trichloroethane	89		-		70-130	-		
Tetrachloroethene	71		-		70-130	-		
1,1,2,2-Tetrachloroethane	85		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2555013
Report Date: 09/05/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-05 QC Batch ID: WG2110380-5 QC Sample: L2555013-02 Client ID: 045163-11MORT-B-FIN						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	0.021	0.021	ppbV	0		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Trichloroethene	0.765	0.724	ppbV	6		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Tetrachloroethene	ND	0.020	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25

Project Name: TUFTS STREET

Project Number: 045163

Lab Number: L2555013

Report Date: 09/05/25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2555013-01	045163-11MORT-F1	02275	Flow 5	08/27/25	533447		-	-	-	Pass	3.1	3.4	9
L2555013-01	045163-11MORT-F1	5660	6.0L TO Can	08/27/25	533447	L2551801-04	Pass	-29.6	-7.3	-	-	-	-
L2555013-02	045163-11MORT-B-FIN	0286	Flow 5	08/27/25	533447		-	-	-	Pass	3.1	3.1	0
L2555013-02	045163-11MORT-B-FIN	5923	6.0L TO Can	08/27/25	533447	L2551801-03	Pass	-29.0	-7.6	-	-	-	-
L2555013-03	045163-11MORT-B-UNFIN	02223	Flow 5	08/27/25	533447		-	-	-	Pass	3.0	2.7	11
L2555013-03	045163-11MORT-B-UNFIN	5781	6.0L TO Can	08/27/25	533447	L2551801-04	Pass	-29.6	-11.9	-	-	-	-
L2555013-04	045163-11MORT-SV-1	02848	Flow 2	08/27/25	533447		-	-	-	Pass	36.6	39.6	8
L2555013-04	045163-11MORT-SV-1	2044	2.7L Can	08/27/25	533447	L2546975-01	Pass	-29.4	-5.2	-	-	-	-
L2555013-05	045163-11MORT-SV-2	0909	Flow 2	08/27/25	533447		-	-	-	Pass	36.3	39.0	7
L2555013-05	045163-11MORT-SV-2	230	2.7L Can	08/27/25	533447	L2546975-01	Pass	-29.7	-6.3	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2546975
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2546975-01
Client ID: CAN 3026 SHELF 51
Sample Location:

Date Collected: 07/26/25 10:00
Date Received: 07/28/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/30/25 01:09
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2546975
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2546975-01
Client ID: CAN 3026 SHELF 51
Sample Location:

Date Collected: 07/26/25 10:00
Date Received: 07/28/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2546975
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2546975-01
Client ID: CAN 3026 SHELF 51
Sample Location:

Date Collected: 07/26/25 10:00
Date Received: 07/28/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2546975
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2546975-01
Client ID: CAN 3026 SHELF 51
Sample Location:

Date Collected: 07/26/25 10:00
Date Received: 07/28/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2546975

Project Number: CANISTER QC BAT **Report Date:** 09/05/25

Air Canister Certification Results

Lab ID: L2546975-01
Client ID: CAN 3026 SHELF 51
Sample Location:

Date Collected: 07/26/25 10:00
Date Received: 07/28/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	84		60-140
chlorobenzene-d5	86		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2546975
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2546975-01
Client ID: CAN 3026 SHELF 51
Sample Location:

Date Collected: 07/26/25 10:00
Date Received: 07/28/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 07/30/25 01:09
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2546975
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2546975-01
Client ID: CAN 3026 SHELF 51
Sample Location:

Date Collected: 07/26/25 10:00
Date Received: 07/28/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2546975
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2546975-01
Client ID: CAN 3026 SHELF 51
Sample Location:

Date Collected: 07/26/25 10:00
Date Received: 07/28/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	92		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2551801
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2551801-03
Client ID: CAN 984 SHELF 74
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/18/25 20:17
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2551801
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2551801-03
Client ID: CAN 984 SHELF 74
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2551801

Project Number: CANISTER QC BAT **Report Date:** 09/05/25

Air Canister Certification Results

Lab ID: L2551801-03
Client ID: CAN 984 SHELF 74
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2551801
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2551801-03
Client ID: CAN 984 SHELF 74
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2551801

Project Number: CANISTER QC BAT **Report Date:** 09/05/25

Air Canister Certification Results

Lab ID: L2551801-03
Client ID: CAN 984 SHELF 74
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	90		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	87		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2551801

Project Number: CANISTER QC BAT **Report Date:** 09/05/25

Air Canister Certification Results

Lab ID: L2551801-03
Client ID: CAN 984 SHELF 74
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/18/25 20:17
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2551801
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2551801-03
Client ID: CAN 984 SHELF 74
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2551801
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2551801-03
Client ID: CAN 984 SHELF 74
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	83		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	82		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2551801
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2551801-04
Client ID: CAN 2463 SHELF 97
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/18/25 20:57
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2551801
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2551801-04
Client ID: CAN 2463 SHELF 97
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2551801
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2551801-04
Client ID: CAN 2463 SHELF 97
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2551801

Project Number: CANISTER QC BAT **Report Date:** 09/05/25

Air Canister Certification Results

Lab ID: L2551801-04
Client ID: CAN 2463 SHELF 97
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2551801

Project Number: CANISTER QC BAT **Report Date:** 09/05/25

Air Canister Certification Results

Lab ID: L2551801-04
Client ID: CAN 2463 SHELF 97
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	107		60-140
Bromochloromethane	112		60-140
chlorobenzene-d5	102		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2551801

Project Number: CANISTER QC BAT **Report Date:** 09/05/25

Air Canister Certification Results

Lab ID: L2551801-04
Client ID: CAN 2463 SHELF 97
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/18/25 20:57
Analyst: KMH

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2551801
Report Date: 09/05/25

Air Canister Certification Results

Lab ID: L2551801-04
Client ID: CAN 2463 SHELF 97
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2551801

Project Number: CANISTER QC BAT **Report Date:** 09/05/25

Air Canister Certification Results

Lab ID: L2551801-04
Client ID: CAN 2463 SHELF 97
Sample Location:

Date Collected: 08/16/25 12:00
Date Received: 08/18/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	97		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2555013
Report Date: 09/05/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2555013-01A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2555013-02A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2555013-03A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2555013-04A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2555013-05A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name:	TUFTS STREET	**Lab Number:**	L2555013
Project Number:	045163	**Report Date:**	09/05/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2555013
Project Number:	045163	**Report Date:**	09/05/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2555013
Project Number:	045163	**Report Date:**	09/05/25

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2555013
Report Date: 09/05/25

REFERENCES

101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, SM4500CL-G, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1: Hg. **EPA 245.7:** Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY kY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
MA M-MA00030, CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 85084, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, LA 245052, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

Pace ANALYTICAL SERVICES

CHAIN OF CUSTODY

120 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 9/2/25

Pace® Job #: L2555013

Client Information

Client: GEI Consultants, Inc
Address: 400 Unicorn Park Drive
Woburn, MA 01801
Phone: 781 721 4000
Fax:
Email: labdata@geiconsultants.com
☐ These samples have been previously analyzed by Pace

Project Information

Project Name: Tufts Street
Project Location: Somerville, MA
Project #: 04163
Project Manager: ChrisConer
Pace® Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved!)
3 day TAT
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☒ See attached analyte list

All Columns Below Must Be Filled Out

PACE Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH Subset Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
55013-01	045163-11Mort-F1	8/29/25	0906	0840	-30.25	-7.59	AA	CMG		5660	02275	X					
02	045163-11Mort-B-Fin	8/29/25	0908	0905	-29.54	-8.17	AA	CMG		5923	0286	X					
03	045163-11Mort-B-Unfin	8/29/25	0912	0908	-30.43	-12.58	AA	CMG		5781	0223	X					
04	045163-11MoA-SV-1	8/29/25	0912	1012	-29.80	-6.02	SV	CMG		2044	02848	X					
05	045163-11Mort-SV-2	8/29/25	0915	1015	-29.84	-6.90	SV	CMG		230	0909	X					

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
CMcCallum-Grun	8/29/25 1100	GEI Field Room	8/29/25 1100
GEI Field Room	9/2/25 1452		9/2/25 1452
	9/2/25 1458		9/2/25 14:58
	9-2-25 16:25		9/2/25 [illegible]

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambi-guities are resolved. All samples submitted are subject to Pace's Terms and Conditions. See reverse side.

Form No: [illegible] (25-Sep-15)

Serial_No:09052516:58

Tufts Street IA/SV Analyte List

- Vinyl chloride
- 1,1-Dichloroethene
- trans-1,2-Dichloroethane
- 1,1-Dichloroethane
- cis-1,2-Dichloroethene
- 1,1,1-Trichloroethane
- Trichloroethene
- 1,1,2-Trichloroethane
- Tetrachloroethene
- 1,1,2,2-Tetrachloroethane

Sample Delivery Group Summary

Pace Job Number : L2555013

Account Name : GEI Consultants
Project Number : 045163
Project Name : TUFTS STREET

Received : 02-SEP-2025
Reviewer : Tyler Hatch

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Absent/			

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels? L2555013-03: FC ID #0223 vs. FC ID #02223	**YES**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**YES**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NA**

ANALYTICAL REPORT

Lab Number:	L2312382
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	TUFTS ST.
Project Number:	045163
Report Date:	03/15/23

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: TUFTS ST.
Project Number: 045163

Lab Number: L2312382
Report Date: 03/15/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2312382-01	045163-10MORT-SV1	SOIL_VAPOR	SOMERVILLE, MA	03/08/23 13:00	03/09/23
L2312382-02	045163-10MORT-SV2	SOIL_VAPOR	SOMERVILLE, MA	03/08/23 13:01	03/09/23
L2312382-03	045163-10MORT-SV3	SOIL_VAPOR	SOMERVILLE, MA	03/08/23 12:51	03/09/23
L2312382-04	045163-10MORT-SV4	SOIL_VAPOR	SOMERVILLE, MA	03/08/23 13:03	03/09/23

Project Name: TUFTS ST. **Lab Number:** L2312382

Project Number: 045163 **Report Date:** 03/15/23

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	NO
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	TUFTS ST.	**Lab Number:**	L2312382
Project Number:	045163	**Report Date:**	03/15/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: TUFTS ST. **Lab Number:** L2312382
Project Number: 045163 **Report Date:** 03/15/23

Case Narrative (continued)

MCP Related Narratives

Canisters were released from the laboratory on February 28, 2023. The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

In reference to questions E b/I:

All samples were analyzed for a subset of the MCP compounds per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 03/15/23

QC OUTLIER SUMMARY REPORT

Project Name: TUFTS ST.
Project Number: 045163

Lab Number: L2312382
Report Date: 03/15/23

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment

There are no QC Outliers associated with this report.

AIR

Project Name: TUFTS ST.
Project Number: 045163

Lab Number: L2312382
Report Date: 03/15/23

SAMPLE RESULTS

Lab ID: L2312382-01
Client ID: 045163-10MORT-SV1
Sample Location: SOMERVILLE, MA

Date Collected: 03/08/23 13:00
Date Received: 03/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 03/14/23 02:38
Analyst: TJS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	0.021	0.020	--	0.083	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.156	0.020	--	1.06	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	93		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	94		60-140

Project Name: TUFTS ST.
Project Number: 045163

Lab Number: L2312382
Report Date: 03/15/23

SAMPLE RESULTS

Lab ID: L2312382-02
Client ID: 045163-10MORT-SV2
Sample Location: SOMERVILLE, MA

Date Collected: 03/08/23 13:01
Date Received: 03/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 03/14/23 03:18
Analyst: TJS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	0.029	0.020	--	0.115	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	0.048	0.020	--	0.258	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.194	0.020	--	1.32	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	95		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	95		60-140

Project Name: TUFTS ST.
Project Number: 045163

Lab Number: L2312382
Report Date: 03/15/23

SAMPLE RESULTS

Lab ID: L2312382-03
Client ID: 045163-10MORT-SV3
Sample Location: SOMERVILLE, MA

Date Collected: 03/08/23 12:51
Date Received: 03/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 03/14/23 03:56
Analyst: TJS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.027	0.020	--	0.183	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	96		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	96		60-140

Project Name: TUFTS ST.
Project Number: 045163

Lab Number: L2312382
Report Date: 03/15/23

SAMPLE RESULTS

Lab ID: L2312382-04
Client ID: 045163-10MORT-SV4
Sample Location: SOMERVILLE, MA

Date Collected: 03/08/23 13:03
Date Received: 03/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 03/14/23 05:15
Analyst: TJS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.043	0.020	--	0.292	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	96		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	95		60-140

Project Name: TUFTS ST.
Project Number: 045163
Lab Number: L2312382
Report Date: 03/15/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15-SIM
Analytical Date: 03/13/23 16:13

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-04 Batch: WG1754197-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS ST.
Project Number: 045163

Lab Number: L2312382
Report Date: 03/15/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-04 Batch: WG1754197-3								
Vinyl chloride	74		-		70-130	-		
1,1-Dichloroethene	75		-		70-130	-		
trans-1,2-Dichloroethene	82		-		70-130	-		
1,1-Dichloroethane	84		-		70-130	-		
cis-1,2-Dichloroethene	85		-		70-130	-		
1,1,1-Trichloroethane	72		-		70-130	-		
Trichloroethene	77		-		70-130	-		
1,1,2-Trichloroethane	73		-		70-130	-		
Tetrachloroethene	93		-		70-130	-		
1,1,2,2-Tetrachloroethane	90		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: TUFTS ST.
Project Number: 045163

Lab Number: L2312382
Report Date: 03/15/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1754197-5 QC Sample: L2312382-03 Client ID: 045163-10MORT-SV3						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Tetrachloroethene	0.027	0.028	ppbV	4		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25

Project Name: TUFTS ST.

Lab Number: L2312382

Project Number: 045163

Report Date: 03/15/23

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2312382-01	045163-10MORT-SV1	01521	Flow 2	02/28/23	415835		-	-	-	Pass	36.0	33.4	7
L2312382-01	045163-10MORT-SV1	2009	2.7L Can	02/28/23	415835	L2308654-01	Pass	-29.6	-5.1	-	-	-	-
L2312382-02	045163-10MORT-SV2	01922	Flow 2	02/28/23	415835		-	-	-	Pass	36.0	36.1	0
L2312382-02	045163-10MORT-SV2	2176	2.7L Can	02/28/23	415835	L2308654-01	Pass	-29.4	-1.5	-	-	-	-
L2312382-03	045163-10MORT-SV3	0193	Flow 2	02/28/23	415835		-	-	-	Pass	36.0	35.9	0
L2312382-03	045163-10MORT-SV3	551	2.7L Can	02/28/23	415835	L2308654-01	Pass	-29.6	0.0	-	-	-	-
L2312382-04	045163-10MORT-SV4	01027	Flow 2	02/28/23	415835		-	-	-	Pass	36.0	37.2	3
L2312382-04	045163-10MORT-SV4	497	2.7L Can	02/28/23	415835	L2308654-01	Pass	-29.7	-1.9	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2308654
Report Date: 03/15/23

Air Canister Certification Results

Lab ID: L2308654-01
Client ID: CAN 2018 SHELF 8
Sample Location:

Date Collected: 02/16/23 18:00
Date Received: 02/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/18/23 19:23
Analyst: NFL

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2308654
Report Date: 03/15/23

Air Canister Certification Results

Lab ID: L2308654-01
Client ID: CAN 2018 SHELF 8
Sample Location:

Date Collected: 02/16/23 18:00
Date Received: 02/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2308654
Report Date: 03/15/23

Air Canister Certification Results

Lab ID: L2308654-01
Client ID: CAN 2018 SHELF 8
Sample Location:

Date Collected: 02/16/23 18:00
Date Received: 02/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2308654
Report Date: 03/15/23

Air Canister Certification Results

Lab ID: L2308654-01
Client ID: CAN 2018 SHELF 8
Sample Location:

Date Collected: 02/16/23 18:00
Date Received: 02/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,3-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2308654
Report Date: 03/15/23

Air Canister Certification Results

Lab ID: L2308654-01
Client ID: CAN 2018 SHELF 8
Sample Location:

Date Collected: 02/16/23 18:00
Date Received: 02/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	103		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2308654
Report Date: 03/15/23

Air Canister Certification Results

Lab ID: L2308654-01
Client ID: CAN 2018 SHELF 8
Sample Location:

Date Collected: 02/16/23 18:00
Date Received: 02/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/18/23 19:23
Analyst: NFL

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2308654

Project Number: CANISTER QC BAT **Report Date:** 03/15/23

Air Canister Certification Results

Lab ID: L2308654-01
Client ID: CAN 2018 SHELF 8
Sample Location:

Date Collected: 02/16/23 18:00
Date Received: 02/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2308654
Report Date: 03/15/23

Air Canister Certification Results

Lab ID: L2308654-01
Client ID: CAN 2018 SHELF 8
Sample Location:

Date Collected: 02/16/23 18:00
Date Received: 02/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	104		60-140

Project Name: TUFTS ST.
Project Number: 045163

Lab Number: L2312382
Report Date: 03/15/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2312382-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2312382-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2312382-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2312382-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		MCP-TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name:	TUFTS ST.	**Lab Number:**	L2312382
Project Number:	045163	**Report Date:**	03/15/23

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	TUFTS ST.	**Lab Number:**	L2312382
Project Number:	045163	**Report Date:**	03/15/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	TUFTS ST.	**Lab Number:**	L2312382
Project Number:	045163	**Report Date:**	03/15/23

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report

REFERENCES

101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

CHAIN OF CUSTODY PAGE____ OF ____

ALPHA ANALYTICAL
320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 3/9/23

ALPHA Job #: L2312382

Client Information

Client: GEI Consultants
Address: 400 Unicorn Park Dr
Phone: 781-721-4000
Fax: —
Email: labdata@geiconsultants.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Tufts St.
Project Location: Somerville MA
Project #: 045163
Project Manager: Chris Coner
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved!)
Date Due: 5 day Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #: 045163

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☒ see attached analyte list

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	ANALYSIS TO-15 ☒	TO-15 SIM	APH Subset Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
12382-01	045163-10Mar-SV1	3/8/23	1200	1300	-30.57	-6.73	SV	CWS/DSM	2.7L	2009	01521	X					✱ see attached list
-02	045163-10Mar-SV2	3/8/23	1201	1301	-30.41	-3.20	SV	CWS/DSM	2.7L	2176	01422	X					
-03	045163-10Mar-SV3	3/8/23	1202	1251	-30.52	-1.37	SV	CWS/DSM	2.7L	551	0193	X					
-04	045163-10Mar-SV4	3/8/23	1203	1303	-30.32	-3.51	SV	CWS/DSM	2.7L	497	01027	X					

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
Dave Mitt	3/8/23 1500	GEI Field Room	3/8/23 15:00
GEI Field Room	3/9/23 1220	Molly Forrest	3/9/23 1220
Molly Forrest	3/9/23 1220	Dave AAc	3/9/23 1220
Dave AAc	3/9/23 1445		

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

3/9/23 16:10

Tufts Street IA/SV Analyte List

- Vinyl chloride
- 1,1-Dichloroethene
- trans-1,2-Dichloroethane
- 1,1-Dichloroethane
- cis-1,2-Dichloroethene
- 1,1,1-Trichloroethane
- Trichloroethene
- 1,1,2-Trichloroethane
- Tetrachloroethene
- 1,1,2,2-Tetrachloroethane

Serial_No:03152317:34

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April 14, 2023

Chris Coner
GEI Consultants, Inc.- Woburn
400 Unicorn Park Drive
Woburn, MA 01801

Project Location: Somerville,MA
Client Job Number:
Project Number: 045163
Laboratory Work Order Number: 23D0007

Enclosed are results of analyses for samples as received by the laboratory on March 31, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

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GEI Consultants, Inc.- Woburn
400 Unicorn Park Drive
Woburn, MA 01801
ATTN: Chris Coner

REPORT DATE: 4/14/2023

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 045163

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23D0007

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Somerville,MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
045163-10Mort-SV1	23D0007-01	Soil Gas		EPA TO-15	
045163-10Mort-SV2	23D0007-02	Soil Gas		EPA TO-15	
045163-10Mort-SV3	23D0007-03	Soil Gas		EPA TO-15	
045163-10Mort-SV4	23D0007-04	Soil Gas		EPA TO-15	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Technical Representative

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ANALYTICAL RESULTS

Project Location: Somerville,MA
Date Received: 3/31/2023
Field Sample #: 045163-10Mort-SV1
Sample ID: 23D0007-01
Sample Matrix: Soil Gas
Sampled: 3/31/2023 10:54

Sample Description/Location:
Sub Description/Location:
Canister ID: 2383
Canister Size: 3 liter
Flow Controller ID: 4402
Sample Type: 1 hr

Work Order: 23D0007
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -4.5
Receipt Vacuum(in Hg): -2.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	**Results**	**RL**	**Flag/Qual**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
1,1-Dichloroethane	ND	0.10		ND	0.40	2	4/10/23 21:55	CMR
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	4/10/23 21:55	CMR
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	4/10/23 21:55	CMR
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	4/10/23 21:55	CMR
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	4/10/23 21:55	CMR
Tetrachloroethylene	ND	0.10		ND	0.68	2	4/10/23 21:55	CMR
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	4/10/23 21:55	CMR
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	4/10/23 21:55	CMR
Trichloroethylene	ND	0.10		ND	0.54	2	4/10/23 21:55	CMR
Vinyl Chloride	ND	0.10		ND	0.26	2	4/10/23 21:55	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	93.4	70-130	4/10/23 21:55

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ANALYTICAL RESULTS

Project Location: Somerville,MA
Date Received: 3/31/2023
Field Sample #: 045163-10Mort-SV2
Sample ID: 23D0007-02
Sample Matrix: Soil Gas
Sampled: 3/31/2023 10:55

Sample Description/Location:
Sub Description/Location:
Canister ID: 2742
Canister Size: 3 liter
Flow Controller ID: 4403
Sample Type: 1 hr

Work Order: 23D0007
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -2.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	**Results**	**RL**	**Flag/Qual**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
1,1-Dichloroethane	ND	0.10		ND	0.40	2	4/10/23 22:37	CMR
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	4/10/23 22:37	CMR
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	4/10/23 22:37	CMR
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	4/10/23 22:37	CMR
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	4/10/23 22:37	CMR
Tetrachloroethylene	ND	0.10		ND	0.68	2	4/10/23 22:37	CMR
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	4/10/23 22:37	CMR
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	4/10/23 22:37	CMR
Trichloroethylene	ND	0.10		ND	0.54	2	4/10/23 22:37	CMR
Vinyl Chloride	ND	0.10		ND	0.26	2	4/10/23 22:37	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	92.8	70-130	4/10/23 22:37

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ANALYTICAL RESULTS

Project Location: Somerville,MA
Date Received: 3/31/2023
Field Sample #: 045163-10Mort-SV3
Sample ID: 23D0007-03
Sample Matrix: Soil Gas
Sampled: 3/31/2023 10:56

Sample Description/Location:
Sub Description/Location:
Canister ID: 2750
Canister Size: 3 liter
Flow Controller ID: 4446
Sample Type: 1 hr

Work Order: 23D0007
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -3.5
Receipt Vacuum(in Hg): -2.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	**Results**	**RL**	**Flag/Qual**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
1,1-Dichloroethane	ND	0.10		ND	0.40	2	4/11/23 0:01	CMR
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	4/11/23 0:01	CMR
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	4/11/23 0:01	CMR
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	4/11/23 0:01	CMR
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	4/11/23 0:01	CMR
Tetrachloroethylene	ND	0.10		ND	0.68	2	4/11/23 0:01	CMR
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	4/11/23 0:01	CMR
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	4/11/23 0:01	CMR
Trichloroethylene	ND	0.10		ND	0.54	2	4/11/23 0:01	CMR
Vinyl Chloride	ND	0.10		ND	0.26	2	4/11/23 0:01	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	94.0	70-130	4/11/23 0:01

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ANALYTICAL RESULTS

Project Location: Somerville,MA
Date Received: 3/31/2023
Field Sample #: 045163-10Mort-SV4
Sample ID: 23D0007-04
Sample Matrix: Soil Gas
Sampled: 3/31/2023 10:57

Sample Description/Location:
Sub Description/Location:
Canister ID: 2759
Canister Size: 3 liter
Flow Controller ID: 4417
Sample Type: 1 hr

Work Order: 23D0007
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -2.4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

	ppbv			ug/m3			Date/Time	
Analyte	**Results**	**RL**	**Flag/Qual**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
1,1-Dichloroethane	ND	0.10		ND	0.40	2	4/11/23 0:42	CMR
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	4/11/23 0:42	CMR
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	4/11/23 0:42	CMR
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	4/11/23 0:42	CMR
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	4/11/23 0:42	CMR
Tetrachloroethylene	ND	0.10		ND	0.68	2	4/11/23 0:42	CMR
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	4/11/23 0:42	CMR
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	4/11/23 0:42	CMR
Trichloroethylene	ND	0.10		ND	0.54	2	4/11/23 0:42	CMR
Vinyl Chloride	ND	0.10		ND	0.26	2	4/11/23 0:42	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	92.7	70-130	4/11/23 0:42

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Sample Extraction Data

Prep Method: TO-15 Prep **Analytical Method: EP**

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
23D0007-01 [045163-10Mort-SV1]	B336828	1.5	1	N/A	1000	400	300	04/10/23
23D0007-02 [045163-10Mort-SV2]	B336828	1.5	1	N/A	1000	400	300	04/10/23
23D0007-03 [045163-10Mort-SV3]	B336828	1.5	1	N/A	1000	400	300	04/10/23
23D0007-04 [045163-10Mort-SV4]	B336828	1.5	1	N/A	1000	400	300	04/10/23

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
Batch B336828 - TO-15 Prep											
Blank (B336828-BLK1)					Prepared & Analyzed: 04/10/23						
1,1-Dichloroethane	ND	0.035									
1,2-Dichloroethane	ND	0.035									
cis-1,2-Dichloroethylene	ND	0.035									
trans-1,2-Dichloroethylene	ND	0.035									
1,1,2,2-Tetrachloroethane	ND	0.035									
Tetrachloroethylene	ND	0.035									
1,1,1-Trichloroethane	ND	0.035									
1,1,2-Trichloroethane	ND	0.035									
Vinyl Chloride	ND	0.035									
Surrogate: 4-Bromofluorobenzene (1)	*7.52*				*8.00*		*94.0*	*70-130*			
LCS (B336828-BS1)					Prepared & Analyzed: 04/10/23						
1,1-Dichloroethane	4.83				5.00		96.6	70-130			
1,2-Dichloroethane	4.96				5.00		99.1	70-130			
cis-1,2-Dichloroethylene	5.06				5.00		101	70-130			
trans-1,2-Dichloroethylene	5.05				5.00		101	70-130			
1,1,2,2-Tetrachloroethane	4.78				5.00		95.6	70-130			
Tetrachloroethylene	4.48				5.00		89.5	70-130			
1,1,1-Trichloroethane	5.00				5.00		100	70-130			
1,1,2-Trichloroethane	4.97				5.00		99.3	70-130			
Vinyl Chloride	3.80				5.00		75.9	70-130			
Surrogate: 4-Bromofluorobenzene (1)	*7.69*				*8.00*		*96.1*	*70-130*			
Duplicate (B336828-DUP1)			**Source: 23D0007-02**		Prepared & Analyzed: 04/10/23						
1,1-Dichloroethane	ND	0.10	ND	0.40		ND				25	
1,2-Dichloroethane	ND	0.10	ND	0.40		ND				25	
cis-1,2-Dichloroethylene	ND	0.10	ND	0.40		ND				25	
trans-1,2-Dichloroethylene	ND	0.10	ND	0.40		ND				25	
1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.69		ND				25	
Tetrachloroethylene	ND	0.10	ND	0.68		ND				25	
1,1,1-Trichloroethane	ND	0.10	ND	0.55		ND				25	
1,1,2-Trichloroethane	ND	0.10	ND	0.55		ND				25	
Vinyl Chloride	ND	0.10	ND	0.26		ND				25	
Surrogate: 4-Bromofluorobenzene (1)	*7.41*				*8.00*		*92.6*	*70-130*			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
045163-10Mort-SV1 (23D0007-01)			Lab File ID: G23A100015.D			Analyzed: 04/10/23 21:55			
Bromochloromethane (1)	1100488	8.301				60 - 140		+/-0.50	
1,4-Difluorobenzene (1)	2159816	10.069				60 - 140		+/-0.50	
Chlorobenzene-d5 (1)	1991027	14.434				60 - 140		+/-0.50	
045163-10Mort-SV2 (23D0007-02)			Lab File ID: G23A100016.D			Analyzed: 04/10/23 22:37			
Bromochloromethane (1)	1091279	8.301				60 - 140		+/-0.50	
1,4-Difluorobenzene (1)	2133496	10.069				60 - 140		+/-0.50	
Chlorobenzene-d5 (1)	1974802	14.434				60 - 140		+/-0.50	
045163-10Mort-SV3 (23D0007-03)			Lab File ID: G23A100018.D			Analyzed: 04/11/23 00:01			
Bromochloromethane (1)	1070530	8.301				60 - 140		+/-0.50	
1,4-Difluorobenzene (1)	2123151	10.069				60 - 140		+/-0.50	
Chlorobenzene-d5 (1)	1958805	14.434				60 - 140		+/-0.50	
045163-10Mort-SV4 (23D0007-04)			Lab File ID: G23A100019.D			Analyzed: 04/11/23 00:42			
Bromochloromethane (1)	1068878	8.301				60 - 140		+/-0.50	
1,4-Difluorobenzene (1)	2118397	10.069				60 - 140		+/-0.50	
Chlorobenzene-d5 (1)	1944099	14.434				60 - 140		+/-0.50	

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CONTINUING CALIBRATION CHECK

				RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO 17025:2017	100033	03/1/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2023

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2300007

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DOC #378 REV3_11232021

CHAIN OF CUSTODY RECORD (AIR)

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name: GEI Consultants
Address: 400 Unicorn Park Dr, Woburn, MA
Phone:
Project Name: Tufts St
Project Location: Somerville, MA
Project Number: 045163
Project Manager: Chris Coner
Pace Quote Name/Number: 2303422
Invoice Recipient:
Sampled By: D. Miller

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ ~~5day & 4 Day~~ ☒ email approval

Data Delivery
Format: PDF ☐ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To:
Fax To #:

ANALYSIS REQUESTED

Lab Use	Client Use	Collection Data		Duration	Flow Rate	Matrix	Volume	ANALYSIS REQUESTED				" Hg			Please fill out completely, sign, date and retain the yellow copy for your records	Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply	For summa canister and flow controller information please refer to Con-Test's Air Media Agreement	
Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Total Minutes Sampled	☐ m³/min ☐ L/min	Code	☒ Liters ☐ m³	☆ TO-15				Initial Pressure	Final Pressure	Lab Receipt Pressure			Summa Can ID	Flow Controller ID
	045163-10Mor-SV1	3/31/23 0954	3/31/23 1054	60		SG	3	X				-29	-4.5	2.0			BC2383	4402
	045163-10Mor-SV2	3/31/23 0955	3/31/23 1055	60		SG	3	X				-30	-4	2.2			BC2742	4403
	045163-10Mor-SV3	3/31/23 0952	3/31/23 1052	60		SG	3	X				-30	-3.5	2.1			BC2750	4446
	045163-10Mor-SV4	3/31/23 0957	3/31/23 1057	60		SG	3	X				-30	-4	2.4			BC2754	4417

Comments: ☆ see attached analyte list

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Matrix Codes:
SG = SOIL GAS
IA = INDOOR AIR
AMB = AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = Other_____

Relinquished by: (signature)	Date/Time:
Dawn Mill	3/31/23 @ 1230
Received by: (signature)	Date/Time:
Chad Lyons	3/31/23 1300
Relinquished by: (signature)	Date/Time:
Chad Lyons	3/31/23 1730
Received by: (signature)	Date/Time:
[illegible]	3/31/23 1730
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
RL
Others

Special Requirements
☒ MA MCP Required
☐ MCP Certification Form Required
☐ CT RCP Required
☐ RCP Certification Form Required
☐ Other

Pace Analytical®
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Tufts Street IA/SV Analyte List

- Vinyl chloride
- 1,1-Dichloroethene
- trans-1,2-Dichloroethane
- 1,1-Dichloroethane
- cis-1,2-Dichloroethene
- 1,1,1-Trichloroethane
- Trichloroethene
- 1,1,2-Trichloroethane
- Tetrachloroethene
- 1,1,2,2-Tetrachloroethane

LAB NAME: Con-Test

LAB PICK-UP DATE: 3/31

PROJECT NAME: Tufts St

PROJECT NUMBER: 045163

NUMBER OF BOTTLES 24 air cans

~~COOLER~~ 1 OF 1

→ box

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East Longmeadow, MA. 01028
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Log In Back-Sheet

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

Pace® PEOPLE ADVANCING SCIENCE

Client GEI Consultants

Project Tufts ST

(MCP)/RCP Required MCP

Deliverable Package Requirement —

Location Somerville, MA

PWSID# (When Applicable) _____

Arrival Method Courier

Received By / Date / Time MEM 3-31-23 1730

Back-Sheet By / Date / Time TPH 4-3-23 1015

Temperature Method _____ # _____

Temp < 6° C ☐ Actual Temperature _____

Rush Samples: Yes / (No) _____ Notify _____

Short Hold: Yes / (No) _____ Notify _____

Notes regarding Samples/COC outside of SOP:

	True	False
Received on Ice	☐	☒
Received in Cooler	☐	☒
Custody Seal: DATE TIME	☐	☒
COC Relinquished	☒	☐
COC/Samples Labels Agree	☒	☐
All Samples in Good Condition	☒	☐
Samples Received within Holding Time	☒	☐
Is there enough Volume	☒	☐
Proper Media/Container Used	☒	☐
Individually Certified Cans	☐	☒
Trip Blanks	☐	☒
COC Legible	☒	☐

COC Included: (Check all included)

Client ☒ Analysis ☒ Sampler Name ☒

Project ☒ IDs ☒ Collection Date/Time ☒

Container	#	Size	Regulator	Duration	Accessories			
Summa Cans	4	3L	4	1hr	Nut/Ferrule		IC Train	
Tedlar Bags					Tubing			
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/ TO-11					Tedlar			

Can #'s		8		16		24	
1	2383	9		17		25	
2	2742	10		18		26	
3	2750	11		19		27	
4	2759	12		20		28	
5		13		21		29	
6		14		22		30	
7		15		23		31	

Regs #'s		8		16		24	
1	4402	9		17		25	
2	4403	10		18		26	
3	4446	11		19		27	
4	4417	12		20		28	
5		13		21		29	
6		14		22		30	
7		15		23		31	

Unused Media		8		16		24	
1		9		17		25	
2		10		18		26	
3		11		19		27	
4		12		20		28	
5		13		21		29	
6		14		22		30	
7		15		23		31	

Pufs/TO-17's		8		16		24	
1		9		17		25	
2		10		18		26	
3		11		19		27	
4		12		20		28	
5		13		21		29	
6		14		22		30	
7		15		23		31	

Air Sampling Media Certificate of Analysis

Date Analyzed: 3/22/2023 **Batch #:** 23CC0234

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC2383

Note:Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.20	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.20	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.20	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.20	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: CMR 4/13/23

Air Sampling Media Certificate of Analysis

Date Analyzed: 3/10/2023 **Batch #:** 23CC0193

Certification Type: *Batch Certified* ☑ *Individual Certified* ☐

Media Type: *Summa Canister* ☑ *Flow Controllers* ☐

Media IDs: BC2742, BC2750, BC2759

Note:Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.20	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1.3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.20	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.20	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.20	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: CMR 4/13/23

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Pace New England	Project #: 23D0007
Project Location: Somerville,MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

23D0007-01 thru 23D0007-04

Matrices: Air

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH (GC/PID/FID) CAM IV A ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP VPH (GC/MS) CAM IV C ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	MassDEP EPH CAM IV B ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B (X)

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☑ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

<u>Data User Note:</u> Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Lisa Worthington Position: Technical Representative

Printed Name: Lisa A. Worthington Date: 04/14/23

ANALYTICAL REPORT

Lab Number:	L2322751
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	TUFTS ST.
Project Number:	045163
Report Date:	05/04/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: TUFTS ST.
Project Number: 045163

Lab Number: L2322751
Report Date: 05/04/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2322751-01	045163-10MORT-SS1	SOIL_VAPOR	SOMERVILLE MA	04/24/23 13:55	04/27/23
L2322751-02	045163-10MORT-SS2	SOIL_VAPOR	SOMERVILLE MA	04/24/23 13:56	04/27/23
L2322751-03	045163-10MORT-SS3	SOIL_VAPOR	SOMERVILLE MA	04/24/23 13:57	04/27/23
L2322751-04	045163-10MORT-SS4	SOIL_VAPOR	SOMERVILLE MA	04/24/23 13:48	04/27/23

Project Name: TUFTS ST. **Lab Number:** L2322751

Project Number: 045163 **Report Date:** 05/04/23

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	NO
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	TUFTS ST.	**Lab Number:**	L2322751
Project Number:	045163	**Report Date:**	05/04/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	TUFTS ST.	**Lab Number:**	L2322751
Project Number:	045163	**Report Date:**	05/04/23

Case Narrative (continued)

MCP Related Narratives

Canisters were released from the laboratory on April 20, 2023. The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

In reference to questions E b/I:

All samples were analyzed for a subset of the MCP compounds per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 05/04/23

QC OUTLIER SUMMARY REPORT

Project Name: TUFTS ST.
Project Number: 045163

Lab Number: L2322751
Report Date: 05/04/23

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment

There are no QC Outliers associated with this report.

AIR

Project Name: TUFTS ST.
Project Number: 045163

Lab Number: L2322751
Report Date: 05/04/23

SAMPLE RESULTS

Lab ID: L2322751-01
Client ID: 045163-10MORT-SS1
Sample Location: SOMERVILLE MA

Date Collected: 04/24/23 13:55
Date Received: 04/27/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 05/02/23 20:55
Analyst: TJS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.052	0.020	--	0.353	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	94		60-140

Project Name: TUFTS ST.
Project Number: 045163

Lab Number: L2322751
Report Date: 05/04/23

SAMPLE RESULTS

Lab ID: L2322751-02
Client ID: 045163-10MORT-SS2
Sample Location: SOMERVILLE MA

Date Collected: 04/24/23 13:56
Date Received: 04/27/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 05/02/23 21:34
Analyst: TJS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.060	0.020	--	0.407	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	89		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	90		60-140

Project Name: TUFTS ST.
Project Number: 045163

Lab Number: L2322751
Report Date: 05/04/23

SAMPLE RESULTS

Lab ID: L2322751-03
Client ID: 045163-10MORT-SS3
Sample Location: SOMERVILLE MA

Date Collected: 04/24/23 13:57
Date Received: 04/27/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 05/02/23 22:13
Analyst: TJS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.180	0.020	--	1.22	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	89		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	93		60-140

Project Name: TUFTS ST.
Project Number: 045163

Lab Number: L2322751
Report Date: 05/04/23

SAMPLE RESULTS

Lab ID: L2322751-04
Client ID: 045163-10MORT-SS4
Sample Location: SOMERVILLE MA

Date Collected: 04/24/23 13:48
Date Received: 04/27/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 05/02/23 23:32
Analyst: TJS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.042	0.020	--	0.285	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	89		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	92		60-140

Project Name: TUFTS ST.
Project Number: 045163
Lab Number: L2322751
Report Date: 05/04/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15-SIM
Analytical Date: 05/02/23 16:21

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-04 Batch: WG1773901-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: TUFTS ST.

Project Number: 045163

Lab Number: L2322751

Report Date: 05/04/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-04 Batch: WG1773901-3								
Vinyl chloride	73		-		70-130	-		
1,1-Dichloroethene	79		-		70-130	-		
trans-1,2-Dichloroethene	75		-		70-130	-		
1,1-Dichloroethane	78		-		70-130	-		
cis-1,2-Dichloroethene	80		-		70-130	-		
1,1,1-Trichloroethane	100		-		70-130	-		
Trichloroethene	90		-		70-130	-		
1,1,2-Trichloroethane	100		-		70-130	-		
Tetrachloroethene	87		-		70-130	-		
1,1,2,2-Tetrachloroethane	97		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: TUFTS ST.
Project Number: 045163

Lab Number: L2322751
Report Date: 05/04/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1773901-5 QC Sample: L2322751-03 Client ID: 045163-10MORT-SS3						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Tetrachloroethene	0.180	0.172	ppbV	5		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25

Project Name: TUFTS ST.

Project Number: 045163

Lab Number: L2322751

Report Date: 05/04/23

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2322751-01	045163-10MORT-SS1	01521	Flow 2	04/20/23	421509		-	-	-	Pass	36.0	35.0	3
L2322751-01	045163-10MORT-SS1	446	2.7L Can	04/20/23	421509	L2318990-01	Pass	-30.1	-5.8	-	-	-	-
L2322751-02	045163-10MORT-SS2	01016	Flow 2	04/20/23	421509		-	-	-	Pass	36.0	35.6	1
L2322751-02	045163-10MORT-SS2	2734	2.7L Can	04/20/23	421509	L2318990-01	Pass	-30.0	-5.2	-	-	-	-
L2322751-03	045163-10MORT-SS3	01733	Flow 2	04/20/23	421509		-	-	-	Pass	36.0	35.6	1
L2322751-03	045163-10MORT-SS3	414	2.7L Can	04/20/23	421509	L2318990-01	Pass	-30.0	-3.4	-	-	-	-
L2322751-04	045163-10MORT-SS4	0193	Flow 2	04/20/23	421509		-	-	-	Pass	36.0	36.9	2
L2322751-04	045163-10MORT-SS4	2215	2.7L Can	04/20/23	421509	L2318990-01	Pass	-29.8	-3.0	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2318990
Report Date: 05/04/23

Air Canister Certification Results

Lab ID: L2318990-01
Client ID: CAN 2873 SHELF 20
Sample Location:

Date Collected: 04/10/23 18:00
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/11/23 18:30
Analyst: TJS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2318990
Report Date: 05/04/23

Air Canister Certification Results

Lab ID: L2318990-01
Client ID: CAN 2873 SHELF 20
Sample Location:

Date Collected: 04/10/23 18:00
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2318990
Report Date: 05/04/23

Air Canister Certification Results

Lab ID: L2318990-01
Client ID: CAN 2873 SHELF 20
Sample Location:

Date Collected: 04/10/23 18:00
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2318990
Report Date: 05/04/23

Air Canister Certification Results

Lab ID: L2318990-01
Client ID: CAN 2873 SHELF 20
Sample Location:

Date Collected: 04/10/23 18:00
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2318990
Report Date: 05/04/23

Air Canister Certification Results

Lab ID: L2318990-01
Client ID: CAN 2873 SHELF 20
Sample Location:

Date Collected: 04/10/23 18:00
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	101		60-140
chlorobenzene-d5	96		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2318990
Report Date: 05/04/23

Air Canister Certification Results

Lab ID: L2318990-01
Client ID: CAN 2873 SHELF 20
Sample Location:

Date Collected: 04/10/23 18:00
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/11/23 18:30
Analyst: TJS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2318990
Report Date: 05/04/23

Air Canister Certification Results

Lab ID: L2318990-01
Client ID: CAN 2873 SHELF 20
Sample Location:

Date Collected: 04/10/23 18:00
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2318990
Report Date: 05/04/23

Air Canister Certification Results

Lab ID: L2318990-01
Client ID: CAN 2873 SHELF 20
Sample Location:

Date Collected: 04/10/23 18:00
Date Received: 04/11/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	103		60-140
chlorobenzene-d5	97		60-140

Project Name: TUFTS ST.
Project Number: 045163

Lab Number: L2322751
Report Date: 05/04/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2322751-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2322751-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2322751-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2322751-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		MCP-TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name:	TUFTS ST.	**Lab Number:**	L2322751
Project Number:	045163	**Report Date:**	05/04/23

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	TUFTS ST.	**Lab Number:**	L2322751
Project Number:	045163	**Report Date:**	05/04/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	TUFTS ST.	**Lab Number:**	L2322751
Project Number:	045163	**Report Date:**	05/04/23

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report

REFERENCES

101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 4/27/23

ALPHA Job #: L2322751

Client Information

Client: GEI Consultants Inc
Address: 400 Unicorn Park Dr.
Woburn MA 01801
Phone: 781-721-4000
Fax:
Email: labdata@geiconsultants.com
cconer@geiconsultants.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Tufts St.
Project Location: Somerville MA
Project #: 045163
Project Manager: Chris Coner
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☒ See attached list

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH Subset Non-petroleum HCs	Fixed Gases ☐	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
22751-01	045163-10Mrt-SS1	4/24/23	1255	1355	-30.32	-7.25	SV	CWS	2.7L	446	01521	X					
-02	045163-10Mrt-SS2	4/24/23	1256	1356	-30.00	-6.53	SV	CWS	2.7L	2734	01016	X					
-03	045163-10Mrt-SS3	4/24/23	1257	1357	-30.32	-4.99	SV	CWS	2.7L	414	01733	X					
-04	045163-10Mrt-SS4	4/24/23	1258	1348	-30.27	-4.68	SV	CWS	2.7L	2215	0193	X					

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
Chris Coner	4/24/23 @ 1430	GEI Field Room	4/27/23 1113
Field Room	4/27/23 1113	Chad F.	4/27/23 1113
Chad F.	4/27/23 1113	Eric Woods AMA	4/27/23 1113
R. Mandigo 4/27/23 1930		Eric Woods AMA	4/27/23 1620
	4/27/23 1620	Cyclone	4/27 1930

Cyclone — 4/27/23 19:50

R. Mandigo 4/27/23 1930

CERTIFICATE OF ANALYSIS

Chris Coner
GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801

RE: Tufts Street (045163)
ESS Laboratory Work Order Number: 23F0033

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 2:07 pm, Jun 09, 2023

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tufts Street

ESS Laboratory Work Order: 23F0033

SAMPLE RECEIPT

The following samples were received on June 01, 2023 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been performed and achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Limit Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

Question I: All samples for VOCs were analyzed for a subset of the required MCP list per the client's request.

Lab Number	Sample Name	Matrix	Analysis
23F0033-01	045163-10MORT-DISP	Soil	8260B

CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tufts Street

ESS Laboratory Work Order: 23F0033

PROJECT NARRATIVE

5035/8260B Volatile Organic Compounds / Methanol
D3F0038-CCV1 **Calibration required quadratic regression (Q).**
1,2,3-Trichlorobenzene (101% @ 80-120%), 1,2,4-Trichlorobenzene (110% @ 80-120%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tufts Street

ESS Laboratory Work Order: 23F0033

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH
MADEP 18-2.1 - VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.

CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tufts Street

ESS Laboratory Work Order: 23F0033

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **23F0033-01**

Matrices: ( ) Ground Water/Surface Water (x) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other:_____

CAM Protocol (check all that apply below):

(x) 8260 VOC CAM II A	( ) 7470/7471 Hg CAM III B	( ) MassDEP VPH (GC/PID/FID) CAM IV A	( ) 8082 PCB CAM V A	( ) 9014 Total Cyanide/PAC CAM VI A	( ) 6860 Perchlorate CAM VIII B
( ) 8270 SVOC CAM II B	( ) 7010 Metals CAM III C	( ) MassDEP VPH (GC/MS) CAM IV C	( ) 8081 Pesticides CAM V B	( ) 7196 Hex Cr CAM VI B	( ) MassDEP APH CAM IX A
( ) 6010 Metals CAM III A	( ) 6020 Metals CAM III D	( ) MassDEP EPH CAM IV B	( ) 8151 Herbicides CAM V C	( ) Explosives CAM VIII A	( ) TO-15 VOC CAM IX B

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes (x) No ( )
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes (x) No ( )
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes (x) No ( )
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (x) No ( )
E	VPH, EPH, APH and TO-15 only: a. Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes ( ) No ( )
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ( ) No ( )
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes (x) No ( )

Responses to Questions G, H and I below are required for "'Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)?	Yes (x) No ( )*
	***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**	
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	Yes (x) No ( )*
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ( ) No (x)*

All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Laurel Stoddard Date: June 09, 2023

Printed Name: Laurel Stoddard Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tufts Street
Client Sample ID: 045163-10MORT-DISP
Date Sampled: 05/31/23 10:30
Percent Solids: N/A
Initial Volume: 7.5g
Final Volume: 15ml
Extraction Method: 5035

ESS Laboratory Work Order: 23F0033
ESS Laboratory Sample ID: 23F0033-01
Sample Matrix: Soil
Units: mg/kg wet
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
1,1,1-Trichloroethane	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
1,1,2,2-Tetrachloroethane	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
1,1,2-Trichloroethane	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
1,1-Dichloroethane	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
1,1-Dichloroethene	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
1,1-Dichloropropene	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
1,2,3-Trichlorobenzene	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
1,2,3-Trichloropropane	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
1,2,4-Trichlorobenzene	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
1,2-Dibromo-3-Chloropropane	ND (2.00)		8260B		1	06/02/23 11:56	D3F0038	DF30217
1,2-Dichlorobenzene	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
1,2-Dichloroethane	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
1,2-Dichloropropane	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
1,3-Dichlorobenzene	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
1,3-Dichloropropane	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
1,4-Dichlorobenzene	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
2,2-Dichloropropane	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
2-Chlorotoluene	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
4-Chlorotoluene	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
Bromochloromethane	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
Bromodichloromethane	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
Chlorobenzene	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
Chloroethane	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
Chloroform	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
Chloromethane	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
cis-1,2-Dichloroethene	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
cis-1,3-Dichloropropene	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
Dibromochloromethane	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
Dichlorodifluoromethane	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
Hexachlorobutadiene	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
Methylene Chloride	ND (0.800)		8260B		1	06/02/23 11:56	D3F0038	DF30217

CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tufts Street
Client Sample ID: 045163-10MORT-DISP
Date Sampled: 05/31/23 10:30
Percent Solids: N/A
Initial Volume: 7.5g
Final Volume: 15ml
Extraction Method: 5035

ESS Laboratory Work Order: 23F0033
ESS Laboratory Sample ID: 23F0033-01
Sample Matrix: Soil
Units: mg/kg wet
Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrachloroethene	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
trans-1,2-Dichloroethene	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
trans-1,3-Dichloropropene	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
Trichloroethene	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
Trichlorofluoromethane	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217
Vinyl Chloride	ND (0.400)		8260B		1	06/02/23 11:56	D3F0038	DF30217

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*103 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*104 %*		*70-130*
Surrogate: Dibromofluoromethane	*106 %*		*70-130*
Surrogate: Toluene-d8	*106 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tufts Street

ESS Laboratory Work Order: 23F0033

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch DF30217 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.200	mg/kg wet							
1,1,1-Trichloroethane	ND	0.200	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.200	mg/kg wet							
1,1,2-Trichloroethane	ND	0.200	mg/kg wet							
1,1-Dichloroethane	ND	0.200	mg/kg wet							
1,1-Dichloroethene	ND	0.200	mg/kg wet							
1,1-Dichloropropene	ND	0.200	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.200	mg/kg wet							
1,2,3-Trichloropropane	ND	0.200	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.200	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	1.00	mg/kg wet							
1,2-Dichlorobenzene	ND	0.200	mg/kg wet							
1,2-Dichloroethane	ND	0.200	mg/kg wet							
1,2-Dichloropropane	ND	0.200	mg/kg wet							
1,3-Dichlorobenzene	ND	0.200	mg/kg wet							
1,3-Dichloropropane	ND	0.200	mg/kg wet							
1,4-Dichlorobenzene	ND	0.200	mg/kg wet							
2,2-Dichloropropane	ND	0.200	mg/kg wet							
2-Chlorotoluene	ND	0.200	mg/kg wet							
4-Chlorotoluene	ND	0.200	mg/kg wet							
Bromochloromethane	ND	0.200	mg/kg wet							
Bromodichloromethane	ND	0.200	mg/kg wet							
Chlorobenzene	ND	0.200	mg/kg wet							
Chloroethane	ND	0.200	mg/kg wet							
Chloroform	ND	0.200	mg/kg wet							
Chloromethane	ND	0.200	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.200	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.200	mg/kg wet							
Dibromochloromethane	ND	0.200	mg/kg wet							
Dichlorodifluoromethane	ND	0.200	mg/kg wet							
Hexachlorobutadiene	ND	0.200	mg/kg wet							
Methylene Chloride	ND	0.400	mg/kg wet							
Tetrachloroethene	ND	0.200	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.200	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.200	mg/kg wet							
Trichloroethene	ND	0.200	mg/kg wet							
Trichlorofluoromethane	ND	0.200	mg/kg wet							
Vinyl Chloride	ND	0.200	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	*4.87*		mg/kg wet	*5.000*		*97*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*5.00*		mg/kg wet	*5.000*		*100*	*70-130*			
Surrogate: Dibromofluoromethane	*4.99*		mg/kg wet	*5.000*		*100*	*70-130*			
Surrogate: Toluene-d8	*5.02*		mg/kg wet	*5.000*		*100*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	1.97	0.200	mg/kg wet	2.000		98	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tufts Street

ESS Laboratory Work Order: 23F0033

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch DF30217 - 5035										
1,1,1-Trichloroethane	1.88	0.200	mg/kg wet	2.000		94	70-130			
1,1,2,2-Tetrachloroethane	1.93	0.200	mg/kg wet	2.000		97	70-130			
1,1,2-Trichloroethane	1.90	0.200	mg/kg wet	2.000		95	70-130			
1,1-Dichloroethane	1.89	0.200	mg/kg wet	2.000		94	70-130			
1,1-Dichloroethene	1.83	0.200	mg/kg wet	2.000		91	70-130			
1,1-Dichloropropene	1.96	0.200	mg/kg wet	2.000		98	70-130			
1,2,3-Trichlorobenzene	1.81	0.200	mg/kg wet	2.000		91	70-130			
1,2,3-Trichloropropane	1.85	0.200	mg/kg wet	2.000		93	70-130			
1,2,4-Trichlorobenzene	1.88	0.200	mg/kg wet	2.000		94	70-130			
1,2-Dibromo-3-Chloropropane	1.68	1.00	mg/kg wet	2.000		84	70-130			
1,2-Dichlorobenzene	1.91	0.200	mg/kg wet	2.000		96	70-130			
1,2-Dichloroethane	1.89	0.200	mg/kg wet	2.000		95	70-130			
1,2-Dichloropropane	1.91	0.200	mg/kg wet	2.000		96	70-130			
1,3-Dichlorobenzene	1.89	0.200	mg/kg wet	2.000		94	70-130			
1,3-Dichloropropane	2.02	0.200	mg/kg wet	2.000		101	70-130			
1,4-Dichlorobenzene	2.03	0.200	mg/kg wet	2.000		102	70-130			
2,2-Dichloropropane	1.93	0.200	mg/kg wet	2.000		96	70-130			
2-Chlorotoluene	1.94	0.200	mg/kg wet	2.000		97	70-130			
4-Chlorotoluene	1.94	0.200	mg/kg wet	2.000		97	70-130			
Bromochloromethane	1.91	0.200	mg/kg wet	2.000		96	70-130			
Bromodichloromethane	1.93	0.200	mg/kg wet	2.000		96	70-130			
Chlorobenzene	1.87	0.200	mg/kg wet	2.000		93	70-130			
Chloroethane	2.03	0.200	mg/kg wet	2.000		102	70-130			
Chloroform	1.92	0.200	mg/kg wet	2.000		96	70-130			
Chloromethane	1.68	0.200	mg/kg wet	2.000		84	70-130			
cis-1,2-Dichloroethene	1.95	0.200	mg/kg wet	2.000		97	70-130			
cis-1,3-Dichloropropene	1.86	0.200	mg/kg wet	2.000		93	70-130			
Dibromochloromethane	1.88	0.200	mg/kg wet	2.000		94	70-130			
Dichlorodifluoromethane	1.60	0.200	mg/kg wet	2.000		80	70-130			
Hexachlorobutadiene	1.89	0.200	mg/kg wet	2.000		94	70-130			
Methylene Chloride	1.93	0.400	mg/kg wet	2.000		96	70-130			
Tetrachloroethene	1.82	0.200	mg/kg wet	2.000		91	70-130			
trans-1,2-Dichloroethene	1.95	0.200	mg/kg wet	2.000		98	70-130			
trans-1,3-Dichloropropene	1.70	0.200	mg/kg wet	2.000		85	70-130			
Trichloroethene	1.93	0.200	mg/kg wet	2.000		96	70-130			
Trichlorofluoromethane	1.80	0.200	mg/kg wet	2.000		90	70-130			
Vinyl Chloride	1.97	0.200	mg/kg wet	2.000		99	70-130			
Surrogate: 1,2-Dichloroethane-d4	*4.97*		mg/kg wet	*5.000*		*99*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*4.93*		mg/kg wet	*5.000*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*4.94*		mg/kg wet	*5.000*		*99*	*70-130*			
Surrogate: Toluene-d8	*4.97*		mg/kg wet	*5.000*		*99*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	1.98	0.200	mg/kg wet	2.000		99	70-130	0.6	25	
1,1,1-Trichloroethane	1.88	0.200	mg/kg wet	2.000		94	70-130	0.1	25	
1,1,2,2-Tetrachloroethane	1.93	0.200	mg/kg wet	2.000		97	70-130	0.1	25	

CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tufts Street

ESS Laboratory Work Order: 23F0033

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
Batch DF30217 - 5035										
1,1,2-Trichloroethane	1.92	0.200	mg/kg wet	2.000		96	70-130	1	25	
1,1-Dichloroethane	1.89	0.200	mg/kg wet	2.000		95	70-130	0.3	25	
1,1-Dichloroethene	1.85	0.200	mg/kg wet	2.000		92	70-130	1	25	
1,1-Dichloropropene	1.98	0.200	mg/kg wet	2.000		99	70-130	1	25	
1,2,3-Trichlorobenzene	1.78	0.200	mg/kg wet	2.000		89	70-130	2	25	
1,2,3-Trichloropropane	1.86	0.200	mg/kg wet	2.000		93	70-130	0.3	25	
1,2,4-Trichlorobenzene	1.91	0.200	mg/kg wet	2.000		95	70-130	1	25	
1,2-Dibromo-3-Chloropropane	1.68	1.00	mg/kg wet	2.000		84	70-130	0	25	
1,2-Dichlorobenzene	1.92	0.200	mg/kg wet	2.000		96	70-130	0.4	25	
1,2-Dichloroethane	1.86	0.200	mg/kg wet	2.000		93	70-130	2	25	
1,2-Dichloropropane	1.90	0.200	mg/kg wet	2.000		95	70-130	0.3	25	
1,3-Dichlorobenzene	1.91	0.200	mg/kg wet	2.000		95	70-130	0.9	25	
1,3-Dichloropropane	2.00	0.200	mg/kg wet	2.000		100	70-130	1	25	
1,4-Dichlorobenzene	2.01	0.200	mg/kg wet	2.000		100	70-130	1	25	
2,2-Dichloropropane	1.92	0.200	mg/kg wet	2.000		96	70-130	0.4	25	
2-Chlorotoluene	1.96	0.200	mg/kg wet	2.000		98	70-130	0.8	25	
4-Chlorotoluene	1.93	0.200	mg/kg wet	2.000		96	70-130	0.5	25	
Bromochloromethane	1.86	0.200	mg/kg wet	2.000		93	70-130	3	25	
Bromodichloromethane	1.92	0.200	mg/kg wet	2.000		96	70-130	0.1	25	
Chlorobenzene	1.87	0.200	mg/kg wet	2.000		94	70-130	0.3	25	
Chloroethane	2.00	0.200	mg/kg wet	2.000		100	70-130	2	25	
Chloroform	1.89	0.200	mg/kg wet	2.000		94	70-130	1	25	
Chloromethane	1.70	0.200	mg/kg wet	2.000		85	70-130	0.7	25	
cis-1,2-Dichloroethene	1.88	0.200	mg/kg wet	2.000		94	70-130	4	25	
cis-1,3-Dichloropropene	1.84	0.200	mg/kg wet	2.000		92	70-130	1	25	
Dibromochloromethane	1.87	0.200	mg/kg wet	2.000		94	70-130	0.5	25	
Dichlorodifluoromethane	1.70	0.200	mg/kg wet	2.000		85	70-130	6	25	
Hexachlorobutadiene	2.00	0.200	mg/kg wet	2.000		100	70-130	6	25	
Methylene Chloride	1.94	0.400	mg/kg wet	2.000		97	70-130	0.5	25	
Tetrachloroethene	1.89	0.200	mg/kg wet	2.000		95	70-130	4	25	
trans-1,2-Dichloroethene	1.99	0.200	mg/kg wet	2.000		100	70-130	2	25	
trans-1,3-Dichloropropene	1.68	0.200	mg/kg wet	2.000		84	70-130	1	25	
Trichloroethene	1.91	0.200	mg/kg wet	2.000		95	70-130	1	25	
Trichlorofluoromethane	1.86	0.200	mg/kg wet	2.000		93	70-130	3	25	
Vinyl Chloride	1.96	0.200	mg/kg wet	2.000		98	70-130	0.7	25	
Surrogate: 1,2-Dichloroethane-d4	*4.97*		mg/kg wet	*5.000*		*99*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*4.95*		mg/kg wet	*5.000*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*4.92*		mg/kg wet	*5.000*		*98*	*70-130*			
Surrogate: Toluene-d8	*4.97*		mg/kg wet	*5.000*		*99*	*70-130*			

CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tufts Street

ESS Laboratory Work Order: 23F0033

Notes and Definitions

U	Analyte included in the analysis, but not detected
Q	Calibration required quadratic regression (Q).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probable Number
TNTC	Too numerous to Count
CFU	Colony Forming Units

CERTIFICATE OF ANALYSIS

Client Name: GEI Consultants, Inc.
Client Project ID: Tufts Street

ESS Laboratory Work Order: 23F0033

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002
http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

Pennsylvania: 68-01752
http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GEI Consultants, Inc. - TB

Shipped/Delivered Via: ESS Courier

ESS Project ID: 23F0033
Date Received: 6/1/2023
Project Due Date: 6/8/2023
Days for Project: 5 Day

1. Air bill manifest present? No
   Air No.: NA
2. Were custody seals present? No
3. Is radiation count <100 CPM? Yes
4. Is a Cooler Present? Yes
   Temp: 1.4 Iced with: Ice
5. Was COC signed and dated by client? Yes
6. Does COC match bottles? Yes
7. Is COC complete and correct? Yes
8. Were samples received intact? Yes
9. **Were labs informed about short holds & rushes?** Yes / No / (NA)
10. Were any analyses received outside of hold time? Yes / (No)

11. Any Subcontracting needed? Yes / (No)
    ESS Sample IDs:
    Analysis:
    TAT:
12. Were VOAs received? (Yes) / No
    a. Air bubbles in aqueous VOAs? Yes / No
    b. Does methanol cover soil completely? (Yes) / No / NA
13. Are the samples properly preserved? (Yes) / No
    a. If metals preserved upon receipt: Date: Time: By/Acid Lot#:
    b. Low Level VOA vials frozen: Date: Time: By:

Sample Receiving Notes:

Did not receive jar for % solids

14. Was there a need to contact Project Manager? (Yes) / No
    a. Was there a need to contact the client? Yes / No
    Who was contacted? Molly Forrest Date: 6/5/23 Time: By: ML

Resolution: report without % solids

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	437250	Yes	N/A	Yes	VOA Vial	MeOH	

2nd Review

Were all containers scanned into storage/lab? Initials: [signature] (Yes) / No
Are barcode labels on correct containers? Yes / No / NA
Are all Flashpoint stickers attached/container ID # circled? Yes / No / NA
Are all Hex Chrome stickers attached? Yes / No / NA
Are all QC stickers attached? Yes / No / NA
Are VOA stickers attached if bubbles noted? Yes / No / NA

Completed By: [signature] Date & Time: 6/1/23 1842
Reviewed By: [signature] Date & Time: 6/1/23 1848

Chain-of-Custody Record

Laboratory: ESS

Laboratory Job # (Lab use only) 23F0033

GEI Consultants
400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000

Project Information

Project Name: Tufts St

Project Number: 045163

Project Location: Somerville, MA

Project Manager: Chris Coner
CCONER@geiconsultants.com

Send Report to:
Molly Forrest & Chris Coner
MFORREST@geiconsultants.com

MCP PRESUMPTIVE CERTAINTY AND MCP ANALYTICAL METHODS REQUIRED: (YES) NO

STATE AND FEDERAL REGULATORY REQUIREMENTS/REPORT LIMITS

State/Federal Program: (MA) 401WQC Other _____ NH RI CT NY ME

MA MCP Criteria are Method 1 S-1 and GW-2/GW-3. Circle if GW-1 is required.

Lab Sample Number	GEI Sample ID	Collection Date	Collection Time	Matrix	No. of Bottles	Sampler(s) Initials	Preservative: MeOH	High Level VOCs & CVOCs	Sample Specific Remarks
1	~~10MORT-DISP~~ 045163-10MORT-DISP CM 6/31	5/31/23	10:30	SO	1	CMG	X	X	

Sample Handling

Samples Field Filtered: YES (NO) NA

Sampled Shipped With Ice: YES NO

Relinquished by sampler: (signature)	Date:	Time:	Received by: (signature)
1. CMcCallum Coner	5/31/23	11:25	1. GEI Fridge
2. GEI Fridge	6/1/23	1320	2.
3.	6/1/23	1325	3. AO 6/1/23 1325
4. AO 1.4° ice	6/1/23	1606	4.
5.			5.

Turnaround Time (Business days):

Normal X 4-Day ____ 3-Day ____

2-Day ____ 1-Day ____ Other ____

Before submitting rush turnaround samples, you must notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

Sample Matrix Abbreviations: SO = Soil GW = Groundwater SW = Surface Water SD = Sediment CO = Concrete PC = Paint Chip CLK = Caulk

ANALYTICAL REPORT

Lab Number:	L2459340
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	TUFTS STREET
Project Number:	045163
Report Date:	10/17/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (9110), MN (025-999-495), NJ (MA015), NY (11627), NC (685), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708A1), USFWS (Permit #A24920).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2459340
Report Date: 10/17/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2459340-01	045163-SV-5	SOIL_VAPOR	SOMERVILLE, MA	10/09/24 08:59	10/11/24
L2459340-02	045163-SV-6	SOIL_VAPOR	SOMERVILLE, MA	10/09/24 09:02	10/11/24

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2459340
Report Date: 10/17/24

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	YES
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	NO
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	TUFTS STREET	**Lab Number:**	L2459340
Project Number:	045163	**Report Date:**	10/17/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2459340
Report Date: 10/17/24

Case Narrative (continued)

MCP Related Narratives

Canisters were released from the laboratory on October 4, 2024. The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

In reference to questions E b/I:

All samples were analyzed for a subset of the MCP compounds per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 10/17/24

QC OUTLIER SUMMARY REPORT

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2459340
Report Date: 10/17/24

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment

There are no QC Outliers associated with this report.

AIR

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2459340
Report Date: 10/17/24

SAMPLE RESULTS

Lab ID: L2459340-01 D
Client ID: 045163-SV-5
Sample Location: SOMERVILLE, MA

Date Collected: 10/09/24 08:59
Date Received: 10/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/17/24 02:07
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.037	--	ND	0.094	--		1.845
1,1-Dichloroethene	ND	0.037	--	ND	0.146	--		1.845
trans-1,2-Dichloroethene	84.7	0.037	--	336	0.146	--		1.845
1,1-Dichloroethane	ND	0.037	--	ND	0.149	--		1.845
cis-1,2-Dichloroethene	0.039	0.037	--	0.153	0.146	--		1.845
1,1,1-Trichloroethane	ND	0.037	--	ND	0.201	--		1.845
Trichloroethene	0.042	0.037	--	0.228	0.198	--		1.845
1,1,2-Trichloroethane	ND	0.037	--	ND	0.201	--		1.845
Tetrachloroethene	1.86	0.037	--	12.6	0.250	--		1.845
1,1,2,2-Tetrachloroethane	ND	0.037	--	ND	0.253	--		1.845

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	96		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	104		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2459340
Report Date: 10/17/24

SAMPLE RESULTS

Lab ID: L2459340-02
Client ID: 045163-SV-6
Sample Location: SOMERVILLE, MA

Date Collected: 10/09/24 09:02
Date Received: 10/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/17/24 02:39
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	63.0	0.020	--	250	0.079	--	E	1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	0.027	0.020	--	0.107	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	2.40	0.020	--	16.3	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	95		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	104		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2459340
Report Date: 10/17/24

SAMPLE RESULTS

Lab ID: L2459340-02 D
Client ID: 045163-SV-6
Sample Location: SOMERVILLE, MA

Date Collected: 10/09/24 09:02
Date Received: 10/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 10/17/24 05:46
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Lab								
trans-1,2-Dichloroethene	73.4	0.050	--	291	0.198	--		2.5

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	95		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	104		60-140

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2459340
Report Date: 10/17/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15-SIM
Analytical Date: 10/16/24 13:42

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-02 Batch: WG1985200-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: TUFTS STREET

Project Number: 045163

Lab Number: L2459340

Report Date: 10/17/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG1985200-3								
Vinyl chloride	80		-		70-130	-		
1,1-Dichloroethene	85		-		70-130	-		
trans-1,2-Dichloroethene	86		-		70-130	-		
1,1-Dichloroethane	92		-		70-130	-		
cis-1,2-Dichloroethene	89		-		70-130	-		
1,1,1-Trichloroethane	93		-		70-130	-		
Trichloroethene	100		-		70-130	-		
1,1,2-Trichloroethane	97		-		70-130	-		
Tetrachloroethene	99		-		70-130	-		
1,1,2,2-Tetrachloroethane	109		-		70-130	-		

Project Name: TUFTS STREET

Project Number: 045163

Lab Number: L2459340

Report Date: 10/17/24

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2459340-01	045163-SV-5	02335	Flow 2	10/04/24	487665		-	-	-	Pass	36.0	30	18
L2459340-01	045163-SV-5	2363	2.7L Can	10/04/24	487665	L2455450-07	Pass	-29.9	-8.7	-	-	-	-
L2459340-02	045163-SV-6	0910	Flow 1	10/04/24	487665		-	-	-	Pass	36.0	42	15
L2459340-02	045163-SV-6	2009	2.7L Can	10/04/24	487665	L2455450-07	Pass	-29.9	-4.6	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2455450
Report Date: 10/17/24

Air Canister Certification Results

Lab ID: L2455450-07
Client ID: CAN 122 SHELF 71
Sample Location:

Date Collected: 09/26/24 10:00
Date Received: 09/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/26/24 20:42
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2455450
Report Date: 10/17/24

Air Canister Certification Results

Lab ID: L2455450-07
Client ID: CAN 122 SHELF 71
Sample Location:

Date Collected: 09/26/24 10:00
Date Received: 09/26/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2455450
Report Date: 10/17/24

Air Canister Certification Results

Lab ID: L2455450-07
Client ID: CAN 122 SHELF 71
Sample Location:

Date Collected: 09/26/24 10:00
Date Received: 09/26/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2455450
Report Date: 10/17/24

Air Canister Certification Results

Lab ID: L2455450-07
Client ID: CAN 122 SHELF 71
Sample Location:

Date Collected: 09/26/24 10:00
Date Received: 09/26/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2455450
Report Date: 10/17/24

Air Canister Certification Results

Lab ID: L2455450-07
Client ID: CAN 122 SHELF 71
Sample Location:

Date Collected: 09/26/24 10:00
Date Received: 09/26/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	83		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	93		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2455450
Report Date: 10/17/24

Air Canister Certification Results

Lab ID: L2455450-07
Client ID: CAN 122 SHELF 71
Sample Location:

Date Collected: 09/26/24 10:00
Date Received: 09/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/27/24 23:28
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Acrylonitrile	ND	0.500	--	ND	1.09	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	102		60-140
Bromochloromethane	108		60-140
chlorobenzene-d5	115		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2455450
Report Date: 10/17/24

Air Canister Certification Results

Lab ID: L2455450-07
Client ID: CAN 122 SHELF 71
Sample Location:

Date Collected: 09/26/24 10:00
Date Received: 09/26/24
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/26/24 20:42
Analyst: JFI

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2455450
Report Date: 10/17/24

Air Canister Certification Results

Lab ID: L2455450-07
Client ID: CAN 122 SHELF 71
Sample Location:

Date Collected: 09/26/24 10:00
Date Received: 09/26/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2455450
Report Date: 10/17/24

Air Canister Certification Results

Lab ID: L2455450-07
Client ID: CAN 122 SHELF 71
Sample Location:

Date Collected: 09/26/24 10:00
Date Received: 09/26/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	82		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	92		60-140

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2459340
Report Date: 10/17/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2459340-01A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2459340-02A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name:	TUFTS STREET	**Lab Number:**	L2459340
Project Number:	045163	**Report Date:**	10/17/24

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2459340
Project Number:	045163	**Report Date:**	10/17/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2459340
Project Number:	045163	**Report Date:**	10/17/24

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2459340
Project Number:	045163	**Report Date:**	10/17/24

REFERENCES

101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/11/24

ALPHA Job #: L2459340

Client Information

Client: GEI Consultants Inc.
Address: 400 Unicorn Park Dr
Woburn, 01801
Phone: 781-721-4000
Fax:
Email: labdata@geiconsultants.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Tufts Street
Project Location: Somerville, MA
Project #: 045163
Project Manager: Chris Coner
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☒

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	ANALYSIS TO-15	TO-15 SIM	APH (Subset Non-petroleum HCs)	Fixed Gases ☐	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
59340-01	045163-SV-5	10/9/24	7:59	8:59	-30.13	-9.40	SV	NMT	2.7L	2363	02335	X					see target analyte list attached
02	045163-SV-6	10/9/24	8:02	9:02	-29.97	-5.45	SV	NMT	2.7L	2009	0910	X					

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
10/11/24 1730	nicholas avoccolo 10/9/24, 12:00	GEI Fieldroom	10/9/24, 12:00
GEI Fieldroom 10.11.24	Rob Maesto 10.11.24 1235	Rob Maesto ADL 10.11.24	1130
Mark 10/11/24	10/11/24 1235	10/11/24	1235

Tufts Street IA/SV Analyte List

- Vinyl chloride
- 1,1-Dichloroethene
- trans-1,2-Dichloroethane
- 1,1-Dichloroethane
- cis-1,2-Dichloroethene
- 1,1,1-Trichloroethane
- Trichloroethene
- 1,1,2-Trichloroethane
- Tetrachloroethene
- 1,1,2,2-Tetrachloroethane

Serial_No:10172416:56

ANALYTICAL REPORT

Lab Number:	L2516977
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	TUFTS ST
Project Number:	045163
Report Date:	04/01/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NH ELAP (2249).

120 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.pacelabs.com

Project Name: TUFTS ST
Project Number: 045163

Lab Number: L2516977
Report Date: 04/01/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2516977-01	045163-10MORT-1	AIR	SOMERVILLE,MA	03/18/25 09:33	03/20/25
L2516977-02	045163-10MORT-B	AIR	SOMERVILLE,MA	03/18/25 09:38	03/20/25
L2516977-03	045163-10MORT-SV5	SOIL_VAPOR	SOMERVILLE,MA	03/18/25 11:05	03/20/25
L2516977-04	045163-10MORT-SV6	SOIL_VAPOR	SOMERVILLE,MA	03/18/25 11:00	03/20/25

Project Name: TUFTS ST
Project Number: 045163
Lab Number: L2516977
Report Date: 04/01/25

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	NO
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	TUFTS ST	**Lab Number:**	L2516977
Project Number:	045163	**Report Date:**	04/01/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: TUFTS ST
Project Number: 045163
Lab Number: L2516977
Report Date: 04/01/25

Case Narrative (continued)

MCP Related Narratives

Canisters were released from the laboratory on March 14, 2025. The canister certification data is provided as an addendum.

MCP Volatile Organics in Air

In reference to questions E b/I:

All samples were analyzed for a subset of the MCP compounds per the Chain of Custody.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 04/01/25

QC OUTLIER SUMMARY REPORT

Project Name: TUFTS ST
Project Number: 045163

Lab Number: L2516977
Report Date: 04/01/25

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment

There are no QC Outliers associated with this report.

AIR

Project Name: TUFTS ST
Project Number: 045163

Lab Number: L2516977
Report Date: 04/01/25

SAMPLE RESULTS

Lab ID: L2516977-01
Client ID: 045163-10MORT-1
Sample Location: SOMERVILLE,MA

Date Collected: 03/18/25 09:33
Date Received: 03/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 04/01/25 00:59
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	40.0	0.020	--	159	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.031	0.020	--	0.210	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	89		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	92		60-140

Project Name: TUFTS ST
Project Number: 045163

Lab Number: L2516977
Report Date: 04/01/25

SAMPLE RESULTS

Lab ID: L2516977-02
Client ID: 045163-10MORT-B
Sample Location: SOMERVILLE,MA

Date Collected: 03/18/25 09:38
Date Received: 03/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 101,TO-15-SIM
Analytical Date: 04/01/25 01:32
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	6.38	0.020	--	25.3	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	88		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	93		60-140

Project Name: TUFTS ST
Project Number: 045163

Lab Number: L2516977
Report Date: 04/01/25

SAMPLE RESULTS

Lab ID: L2516977-03
Client ID: 045163-10MORT-SV5
Sample Location: SOMERVILLE,MA

Date Collected: 03/18/25 11:05
Date Received: 03/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 04/01/25 02:05
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	3.24	0.020	--	12.8	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.172	0.020	--	1.17	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	87		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	93		60-140

Project Name: TUFTS ST
Project Number: 045163

Lab Number: L2516977
Report Date: 04/01/25

SAMPLE RESULTS

Lab ID: L2516977-04
Client ID: 045163-10MORT-SV6
Sample Location: SOMERVILLE,MA

Date Collected: 03/18/25 11:00
Date Received: 03/20/25
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 101,TO-15-SIM
Analytical Date: 04/01/25 02:36
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
MCP Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	3.48	0.020	--	13.8	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	0.853	0.020	--	5.78	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	88		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	95		60-140

Project Name: TUFTS ST
Project Number: 045163
Lab Number: L2516977
Report Date: 04/01/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 101,TO-15-SIM
Analytical Date: 03/31/25 15:56

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
MCP Volatile Organics in Air by SIM - Mansfield Air Lab for sample(s): 01-04 Batch: WG2047630-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS ST
Project Number: 045163

Lab Number: L2516977
Report Date: 04/01/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-04 Batch: WG2047630-3								
Vinyl chloride	101		-		70-130	-		
1,1-Dichloroethene	101		-		70-130	-		
trans-1,2-Dichloroethene	115		-		70-130	-		
1,1-Dichloroethane	100		-		70-130	-		
cis-1,2-Dichloroethene	96		-		70-130	-		
1,1,1-Trichloroethane	95		-		70-130	-		
Trichloroethene	97		-		70-130	-		
1,1,2-Trichloroethane	99		-		70-130	-		
Tetrachloroethene	104		-		70-130	-		
1,1,2,2-Tetrachloroethane	106		-		70-130	-		

Project Name: TUFTS ST

Project Number: 045163

Lab Number: L2516977

Report Date: 04/01/25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controler Leak Chk	Flow Out mL/min	Flow In	% RPD
L2516977-01	045163-10MORT-1	02871	Flow 5	03/14/25	510081		-	-	-	Pass	3.0	3.1	3
L2516977-01	045163-10MORT-1	4250	6.0L Can	03/14/25	510081	L2513890-04	Pass	-29.5	-8.7	-	-	-	-
L2516977-02	045163-10MORT-B	02779	Flow 5	03/14/25	510081		-	-	-	Pass	3.0	3.3	10
L2516977-02	045163-10MORT-B	1778	6.0L Can	03/14/25	510081	L2513890-04	Pass	-29.4	-7.6	-	-	-	-
L2516977-03	045163-10MORT-SV5	02848	Flow 1	03/14/25	510081		-	-	-	Pass	36.3	35.6	2
L2516977-03	045163-10MORT-SV5	118	2.7L Can	03/14/25	510081	L2513198-06	Pass	-30.0	-3.4	-	-	-	-
L2516977-04	045163-10MORT-SV6	02040	Flow 1	03/14/25	510081		-	-	-	Pass	36.0	34.7	4
L2516977-04	045163-10MORT-SV6	484	2.7L Can	03/14/25	510081	L2513198-06	Pass	-29.6	-4.3	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2513198
Report Date: 04/01/25

Air Canister Certification Results

Lab ID: L2513198-06
Client ID: CAN 171 SHELF 19
Sample Location:

Date Collected: 03/08/25 13:00
Date Received: 03/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/08/25 20:56
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2513198
Report Date: 04/01/25

Air Canister Certification Results

Lab ID: L2513198-06
Client ID: CAN 171 SHELF 19
Sample Location:

Date Collected: 03/08/25 13:00
Date Received: 03/08/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2513198
Report Date: 04/01/25

Air Canister Certification Results

Lab ID: L2513198-06
Client ID: CAN 171 SHELF 19
Sample Location:

Date Collected: 03/08/25 13:00
Date Received: 03/08/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2513198
Report Date: 04/01/25

Air Canister Certification Results

Lab ID: L2513198-06
Client ID: CAN 171 SHELF 19
Sample Location:

Date Collected: 03/08/25 13:00
Date Received: 03/08/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2513198

Project Number: CANISTER QC BAT **Report Date:** 04/01/25

Air Canister Certification Results

Lab ID: L2513198-06
Client ID: CAN 171 SHELF 19
Sample Location:

Date Collected: 03/08/25 13:00
Date Received: 03/08/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	92		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2513198

Project Number: CANISTER QC BAT **Report Date:** 04/01/25

Air Canister Certification Results

Lab ID: L2513198-06
Client ID: CAN 171 SHELF 19
Sample Location:

Date Collected: 03/08/25 13:00
Date Received: 03/08/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/08/25 20:56
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2513198
Report Date: 04/01/25

Air Canister Certification Results

Lab ID: L2513198-06
Client ID: CAN 171 SHELF 19
Sample Location:

Date Collected: 03/08/25 13:00
Date Received: 03/08/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	0.041	0.020	--	0.278	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2513198
Report Date: 04/01/25

Air Canister Certification Results

Lab ID: L2513198-06
Client ID: CAN 171 SHELF 19
Sample Location:

Date Collected: 03/08/25 13:00
Date Received: 03/08/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	106		60-140
chlorobenzene-d5	108		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2513890
Report Date: 04/01/25

Air Canister Certification Results

Lab ID: L2513890-04
Client ID: CAN 3964 SHELF 36
Sample Location:

Date Collected: 03/11/25 18:00
Date Received: 03/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/13/25 00:51
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2513890
Report Date: 04/01/25

Air Canister Certification Results

Lab ID: L2513890-04
Client ID: CAN 3964 SHELF 36
Sample Location:

Date Collected: 03/11/25 18:00
Date Received: 03/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2513890

Project Number: CANISTER QC BAT **Report Date:** 04/01/25

Air Canister Certification Results

Lab ID: L2513890-04
Client ID: CAN 3964 SHELF 36
Sample Location:

Date Collected: 03/11/25 18:00
Date Received: 03/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2513890

Project Number: CANISTER QC BAT **Report Date:** 04/01/25

Air Canister Certification Results

Lab ID: L2513890-04
Client ID: CAN 3964 SHELF 36
Sample Location:

Date Collected: 03/11/25 18:00
Date Received: 03/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2513890

Project Number: CANISTER QC BAT **Report Date:** 04/01/25

Air Canister Certification Results

Lab ID: L2513890-04
Client ID: CAN 3964 SHELF 36
Sample Location:

Date Collected: 03/11/25 18:00
Date Received: 03/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Air Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	80		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	88		60-140

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2513890

Project Number: CANISTER QC BAT **Report Date:** 04/01/25

Air Canister Certification Results

Lab ID: L2513890-04
Client ID: CAN 3964 SHELF 36
Sample Location:

Date Collected: 03/11/25 18:00
Date Received: 03/12/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/13/25 00:51
Analyst: KJD

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2513890

Project Number: CANISTER QC BAT **Report Date:** 04/01/25

Air Canister Certification Results

Lab ID: L2513890-04
Client ID: CAN 3964 SHELF 36
Sample Location:

Date Collected: 03/11/25 18:00
Date Received: 03/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2513890
Report Date: 04/01/25

Air Canister Certification Results

Lab ID: L2513890-04
Client ID: CAN 3964 SHELF 36
Sample Location:

Date Collected: 03/11/25 18:00
Date Received: 03/12/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	82		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	92		60-140

Project Name: TUFTS ST
Project Number: 045163

Lab Number: L2516977
Report Date: 04/01/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2516977-01A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2516977-02A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2516977-03A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)
L2516977-04A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		MCP-TO15-SIM(30)

*Values in parentheses indicate holding time in days

Project Name:	TUFTS ST	**Lab Number:**	L2516977
Project Number:	045163	**Report Date:**	04/01/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	TUFTS ST	**Lab Number:**	L2516977
Project Number:	045163	**Report Date:**	04/01/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: *Data Usability Report*

Project Name:	TUFTS ST	**Lab Number:**	L2516977
Project Number:	045163	**Report Date:**	04/01/25

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: TUFTS ST
Project Number: 045163
Lab Number: L2516977
Report Date: 04/01/25

REFERENCES

101 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (EPA/625/R-96/010b:January 1999) with QC Requirements & Performance Standards for the Analysis of TO-15 under the Massachusetts Contingency Plan, WSC-CAM-IXB, July 2010.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 3/20/25

ALPHA Job #: L2516977

Client Information

Client: GEI Consultants Inc
Address: 400 Unicorn Park Drive
Woburn, MA 01801
Phone: 781-721-4000
Fax:
Email: labdata@geiconsultants.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Tufts St
Project Location: Somerville, MA
Project #: 045163
Project Manager: Chris Conor
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH (subset Non-petroleum HCs)	Fixed Gases	Sulfides & Mercaptans by TO-15	☐	Sample Comments (i.e. PID)
16977-01	045163-10MORT-1	3/18/25	0933	0933	-29.97	-9.23	IA	JWG	6L	4250	02871		X					see attached list of analytes
02	045163-10MORT-B	3/18/25	0938	0938	-29.77	-8.48	IA	JWG	6L	1778	02779		X					
03	045163-10MORT-SV5	3/18/25	1005	1105	-30.18	-4.27	SV	JWG	2.7L	118	02848	X						
04	045163-10MORT-SV6	3/18/25	1000	1100	-30.33	-5.02	SV	JWG	2.7L	484	02040	X						

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
Jillian Maffe	3/18/25 1717	GEI Field Room	3/18/25 1717
GEI Field Room	3/20/25 0938	Stephanie Mason	3/20 9:37
Stephanie Mason	3/20 14:38		3/20/25 1438
3/20/25 15			

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Indoor Air Sampling Analyte List

- 1,1-Dichloroethane
- 1,1-Dichloroethylene
- trans-1,2-Dichloroethylene
- cis-1,2-Dichloroethylene
- 1,1,1-Trichloroethane
- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloroethane
- Tetrachloroethylene
- Trichloroethylene
- Vinyl Chloride

Appendix C Photo Log – Draeger-Tubes® Testing

Photo Log

Date: 9/18/2025
11 Morton Street
Notification Retraction

Photo 1. Bin #1 containing floor finishing compounds

Photo 2. Results of Bin #1 air test, non-detect

Photo Log

Date: 9/18/2025
11 Morton Street
Notification Retraction

Photo 3. Bin #2 containing painting aerosols and related compounds

Photo 4. Results of Bin #2 air test with fixative sprayed to surfaces

Photo Log

Date: 9/18/2025
11 Morton Street
Notification Retraction

Photo 5. Results of Bin #2 air test with fixative sprayed directly to test tube

Appendix I Field Monitoring Forms and Inspection Logs

50 Tufts Street Sub-Slab Depressurization System
Monthly Monitoring Form

GENERAL MONITORING INFORMATION

GEI Field Representative(s):	N. Troccolo	**Monitoring Start Time:**	9:50 AM
		Monitoring End Time:	10:30 AM
Date:	07/09/25		
Weather:	70's, Cloudy		

INSTRUMENTATION INFORMATION

Instrument	Manufacturer	Model	Calibrated To:	Successful Calibration?
PID (ppm)	RAE Systems	MiniRAE 3000	100 ppm Isobutylene	**Y** / N 100.8 ppm
Manometer (in. H_2O)	Dwyer	Mark III-475-0 Series	N/A	Zeroed before each reading
Anemometer (CFM)	Reed	R4500SD	N/A	N/A

FIELD MEASUREMENTS & OBSERVATIONS

System Status/Configuration

Fenced Enclosure Secure?	Yes
Blower On?	Yes
Condensate Accumulated?	No
Condensate Drained?	NA
Hour Meter Reading?	NM
Lead Carbon Unit?	A
Secondary Carbon Unit?	B
Polish Carbon Unit?	N/A
VFD Setting (Hz)	60

Pressure/VOC Measurements

Monitoring Point	Pressure (in. H_2O)	VOC (ppm)
West Header	-2.58	1.4
Center Header	-2.63	2.6
East Header	-2.64	1.1
North Header	-2.59	1.8
South Header	-2.72	12.8
Combined System Influent	-6.27	2.0
Blower Effluent	32.20	2.5
Lead Carbon Effluent	22.30	0.0
Secondary Carbon Effluent	1.50	0.0
System Effluent	Effluent is secondary tank - Tank C offline	
Ambient Air		0.0
Blower Filter Inlet	-17	
Blower Filter Outlet	NM	

System Flow Rate Data

Velocity (ft/min)	System Flowrate (CFM):
4777	417

Tank Exterior Monitoring

Bubbling Paint Visible?

Tank	Y/N
A	Yes
B	Yes
C	Yes

Rust Visible?

Tank	Y/N
A	Yes
B	Yes
C	Yes

ABBREVIATIONS

ppm = parts per million
CFM = cubic feet per minute
ft/min = feet per minute
PID = photoionization detector
N/A = Not Applicable
VOC = volatile organic compound
in. H2O = inches of water column
NM = Not Measured
VFD = Variable Frequency Drive

COMMENTS

50 Tufts Street Sub-Slab Depressurization System
Monthly Monitoring Form

GENERAL MONITORING INFORMATION

GEI Field Representative(s):	D. Miller	**Monitoring Start Time:**	7:30 AM
		Monitoring End Time:	8:15 AM
Date:	08/20/25		
Weather:	60's, Cloudy		

INSTRUMENTATION INFORMATION

Instrument	Manufacturer	Model	Calibrated To:	Successful Calibration?
PID (ppm)	RAE Systems	MiniRAE 3000	100 ppm Isobutylene	**Y** / N 100.0 ppm
Manometer (in. H_2O)	Dwyer	Mark III-475-0 Series	N/A	Zeroed before each reading
Anemometer (CFM)	Reed	R4500SD	N/A	N/A

FIELD MEASUREMENTS & OBSERVATIONS

System Status/Configuration

Fenced Enclosure Secure?	Yes
Blower On?	Yes
Condensate Accumulated?	No
Condensate Drained?	NA
Hour Meter Reading?	NM
Lead Carbon Unit?	A
Secondary Carbon Unit?	B
Polish Carbon Unit?	N/A
VFD Setting (Hz)	60

Pressure/VOC Measurements

Monitoring Point	Pressure (in. H_2O)	VOC (ppm)
West Header	NM	NM
Center Header	NM	NM
East Header	NM	NM
North Header	NM	NM
South Header	NM	NM
Combined System Influent	NM	2.1
Blower Effluent	NM	2.1
Lead Carbon Effluent	NM	0.0
Secondary Carbon Effluent	NM	0.0
System Effluent	Effluent is secondary tank - Tank C offline	
Ambient Air		0.0
Blower Filter Inlet	NM	
Blower Filter Outlet	NM	

System Flow Rate Data

Velocity (ft/min)	System Flowrate (CFM):
NM	NM

Tank Exterior Monitoring

Bubbling Paint Visible?

Tank	Y/N
A	Yes
B	Yes
C	Yes

Rust Visible?

Tank	Y/N
A	Yes
B	Yes
C	Yes

ABBREVIATIONS

ppm = parts per million
CFM = cubic feet per minute
ft/min = feet per minute
PID = photoionization detector
N/A = Not Applicable
VOC = volatile organic compound
in. H2O = inches of water column
NM = Not Measured
VFD = Variable Frequency Drive

COMMENTS

50 Tufts Street Sub-Slab Depressurization System
Monthly Monitoring Form

GENERAL MONITORING INFORMATION

GEI Field Representative(s):	D. Miller	**Monitoring Start Time:**	8:30 AM
		Monitoring End Time:	9:00 AM
Date:	09/17/25		
Weather:	60's, Cloudy		

INSTRUMENTATION INFORMATION

Instrument	Manufacturer	Model	Calibrated To:	Successful Calibration?
PID (ppm)	RAE Systems	MiniRAE 3000	100 ppm Isobutylene	**Y** / N 100.3 ppm
Manometer (in. H_2O)	Dwyer	Mark III-475-0 Series	N/A	Zeroed before each reading
Anemometer (CFM)	Reed	R4500SD	N/A	N/A

FIELD MEASUREMENTS & OBSERVATIONS

System Status/Configuration

Fenced Enclosure Secure?	Yes
Blower On?	Yes
Condensate Accumulated?	No
Condensate Drained?	NA
Hour Meter Reading?	NM
Lead Carbon Unit?	A
Secondary Carbon Unit?	B
Polish Carbon Unit?	N/A
VFD Setting (Hz)	60

Pressure/VOC Measurements

Monitoring Point	Pressure (in. H_2O)	VOC (ppm)
West Header	NM	NM
Center Header	NM	NM
East Header	NM	NM
North Header	NM	NM
South Header	NM	NM
Combined System Influent	NM	1.8
Blower Effluent	NM	2.4
Lead Carbon Effluent	NM	0.0
Secondary Carbon Effluent	NM	0.0
System Effluent	Effluent is secondary tank - Tank C offline	
Ambient Air		0.0
Blower Filter Inlet	NM	
Blower Filter Outlet	NM	

System Flow Rate Data

Velocity (ft/min)	System Flowrate (CFM):
NM	NM

Tank Exterior Monitoring

Bubbling Paint Visible?

Tank	Y/N
A	Yes
B	Yes
C	Yes

Rust Visible?

Tank	Y/N
A	Yes
B	Yes
C	Yes

ABBREVIATIONS

ppm = parts per million
CFM = cubic feet per minute
ft/min = feet per minute
PID = photoionization detector
N/A = Not Applicable
VOC = volatile organic compound
in. H2O = inches of water column
NM = Not Measured
VFD = Variable Frequency Drive

COMMENTS

50 Tufts Street Sub-Slab Depressurization System
Monthly Monitoring Form

GENERAL MONITORING INFORMATION

GEI Field Representative(s):	N. Troccolo	**Monitoring Start Time:**	11:45 AM
		Monitoring End Time:	1:00 PM
Date:	10/09/25		
Weather:	50's-60's, Sunny		

INSTRUMENTATION INFORMATION

Instrument	Manufacturer	Model	Calibrated To:	Successful Calibration?
PID (ppm)	RAE Systems	MiniRAE 3000	100 ppm Isobutylene	**Y** / N 100.0 ppm
Manometer (in. H_2O)	Dwyer	Mark III-475-0 Series	N/A	Zeroed before each reading
Anemometer (CFM)	Reed	R4500SD	N/A	N/A

FIELD MEASUREMENTS & OBSERVATIONS

System Status/Configuration

Fenced Enclosure Secure?	Yes
Blower On?	Yes
Condensate Accumulated?	No
Condensate Drained?	NA
Hour Meter Reading?	NM
Lead Carbon Unit?	A
Secondary Carbon Unit?	B
Polish Carbon Unit?	N/A
VFD Setting (Hz)	60

Pressure/VOC Measurements

Monitoring Point	Pressure (in. H_2O)	VOC (ppm)
West Header	-2.58	2.7
Center Header	-2.55	3.5
East Header	-2.51	1.4
North Header	-2.41	1.5
South Header	-2.63	7.0
Combined System Influent	-6.50	2.8
Blower Effluent	25.80	3.0
Lead Carbon Effluent	14.70	0.0
Secondary Carbon Effluent	0.575	0.0
System Effluent	Effluent is secondary tank - Tank C offline	
Ambient Air		0.0
Blower Filter Inlet	-17	
Blower Filter Outlet	NM	

System Flow Rate Data

Velocity (ft/min)	System Flowrate (CFM):
2287	200

Tank Exterior Monitoring

Bubbling Paint Visible?

Tank	Y/N
A	Yes
B	Yes
C	Yes

Rust Visible?

Tank	Y/N
A	Yes
B	Yes
C	Yes

ABBREVIATIONS

ppm = parts per million
CFM = cubic feet per minute
ft/min = feet per minute
PID = photoionization detector
N/A = Not Applicable
VOC = volatile organic compound
in. H2O = inches of water column
NM = Not Measured
VFD = Variable Frequency Drive

COMMENTS

50 Tufts Street Sub-Slab Depressurization System
Monthly Monitoring Form

GENERAL MONITORING INFORMATION

GEI Field Representative(s):	N. Troccolo	**Monitoring Start Time:**	6:55 AM
		Monitoring End Time:	7:15 AM
Date:	11/10/25		
Weather:	50's, Rain		

INSTRUMENTATION INFORMATION

Instrument	Manufacturer	Model	Calibrated To:	Successful Calibration?
PID (ppm)	RAE Systems	MiniRAE 3000	100 ppm Isobutylene	**Y** / N 100.2 ppm
Manometer (in. H_2O)	Dwyer	Mark III-475-0 Series	N/A	Zeroed before each reading
Anemometer (CFM)	Reed	R4500SD	N/A	N/A

FIELD MEASUREMENTS & OBSERVATIONS

System Status/Configuration

Fenced Enclosure Secure?	Yes
Blower On?	Yes
Condensate Accumulated?	No
Condensate Drained?	NA
Hour Meter Reading?	NM
Lead Carbon Unit?	A
Secondary Carbon Unit?	B
Polish Carbon Unit?	N/A
VFD Setting (Hz)	60

Pressure/VOC Measurements

Monitoring Point	Pressure (in. H_2O)	VOC (ppm)
West Header	NM	NM
Center Header	NM	NM
East Header	NM	NM
North Header	NM	NM
South Header	NM	NM
Combined System Influent	NM	1.4
Blower Effluent	NM	1.6
Lead Carbon Effluent	NM	0.0
Secondary Carbon Effluent	NM	0.0
System Effluent	Effluent is secondary tank - Tank C offline	
Ambient Air		0.0
Blower Filter Inlet	NM	
Blower Filter Outlet	NM	

System Flow Rate Data

Velocity (ft/min)	System Flowrate (CFM):
NM	NM

Tank Exterior Monitoring

Bubbling Paint Visible?

Tank	Y/N
A	Yes
B	Yes
C	Yes

Rust Visible?

Tank	Y/N
A	Yes
B	Yes
C	Yes

ABBREVIATIONS

ppm = parts per million
CFM = cubic feet per minute
ft/min = feet per minute
PID = photoionization detector
N/A = Not Applicable
VOC = volatile organic compound
in. H2O = inches of water column
NM = Not Measured
VFD = Variable Frequency Drive

COMMENTS

50 Tufts Street Sub-Slab Depressurization System
Monthly Monitoring Form

GENERAL MONITORING INFORMATION

GEI Field Representative(s):	D. Miller	**Monitoring Start Time:**	2:50 PM
	J. Higgins	**Monitoring End Time:**	3:10 PM
Date:	12/12/25		
Weather:	30's, Sunny		

INSTRUMENTATION INFORMATION

Instrument	Manufacturer	Model	Calibrated To:	Successful Calibration?
PID (ppm)	RAE Systems	MiniRAE 3000	100 ppm Isobutylene	**Y** / N 100.0 ppm
Manometer (in. H_2O)	Dwyer	Mark III-475-0 Series	N/A	Zeroed before each reading
Anemometer (CFM)	Reed	R4500SD	N/A	N/A

FIELD MEASUREMENTS & OBSERVATIONS

System Status/Configuration

Fenced Enclosure Secure?	Yes
Blower On?	Yes
Condensate Accumulated?	No
Condensate Drained?	NA
Hour Meter Reading?	NM
Lead Carbon Unit?	A
Secondary Carbon Unit?	B
Polish Carbon Unit?	N/A
VFD Setting (Hz)	60

Pressure/VOC Measurements

Monitoring Point	Pressure (in. H_2O)	VOC (ppm)
West Header	NM	NM
Center Header	NM	NM
East Header	NM	NM
North Header	NM	NM
South Header	NM	NM
Combined System Influent	NM	0.8
Blower Effluent	NM	1.0
Lead Carbon Effluent	NM	0.0
Secondary Carbon Effluent	NM	0.0
System Effluent	Effluent is secondary tank - Tank C offline	
Ambient Air		0.0
Blower Filter Inlet	NM	
Blower Filter Outlet	NM	

System Flow Rate Data

Velocity (ft/min)	System Flowrate (CFM):
NM	NM

Tank Exterior Monitoring

Bubbling Paint Visible?

Tank	Y/N
A	Yes
B	Yes
C	Yes

Rust Visible?

Tank	Y/N
A	Yes
B	Yes
C	Yes

ABBREVIATIONS

ppm = parts per million
CFM = cubic feet per minute
ft/min = feet per minute
PID = photoionization detector
N/A = Not Applicable
VOC = volatile organic compound
in. H2O = inches of water column
NM = Not Measured
VFD = Variable Frequency Drive

COMMENTS

60 Tufts Street
SSDS Field Monitoring Form

GENERAL MONITORING INFORMATION

GEI Field Representative(s):	N. Troccolo	**Monitoring Start Time:**	10:35 AM
		Monitoring End Time:	10:55 AM
Date:	07/09/25		
Weather:	70's °F, Cloudy		

INSTRUMENTATION INFORMATION

Instrument	Manufacturer	Model	Serial No.	Calibrated To:	Successful Calibration?
PID (ppm)	RAE Systems	miniRAE 3000	592-909711	100.0 ppm Isobutylene	**Y** / N Cal. Reading (ppm): 100.8
Manometer (in. H_2O)	Dwyer	Mark III-475-0 Series	N/A	N/A	Zeroed before each reading? **Y** / N
Anemometer (CFM)	Reed	R4500SD	N/A	N/A	N/A

FIELD MEASUREMENTS / OBSERVATIONS

System Status/Configuration

Blower Enclosure Secure?	**Y** / N
Blower On?	**Y** / N
Influent Condensate Accumulated?	Y / **N**
Effluent Condensate Accumulated?	Y / **N**
Condensate Drained?	Y / **N**
Hour Meter Reading	N/A
VFD Setting (Hz)	60

Pressure/VOC Measurements

Monitoring Point	Pressure (in. H_2O)	VOC (ppm)
North Header	NM*	NM*
South Header	NM*	NM*
Combined System Influent	-1.22	0.0
System Effluent	N/A	0.0
Blower Filter Inlet	12	
Blower Filter Outlet	38	
Ambient Air Outside Blower Enclosure		0.0

System Flow Rate Data

Velocity (feet per minute)	System Flowrate (CFM): = (PI * r^2) * ft per min
1472	126

NOTES:

1. ppm = parts per million.
2. CFM = cubic feet per minute.
3. PID = photoionization detector.
4. N/A = Not Applicable.
5. VOC = volatile organic compound.
6. in. H_2O = inches of water column.
7. VFD = variable frequency drive.
8. Hz = Hertz.

COMMENTS:

* Note: Headers not measured because we did not have access to the building.

Capuano Center Sub-Slab Depressurization System
Monthly Mechanical Inspection Log

GENERAL INFORMATION

			Outdoor Monitoring	Indoor Monitoring
GEI Field Representatives:	N. Troccolo	Start-time of monitoring work:	11:15 AM	NA
		End-time of monitoring work:	12:15 PM	NA
Date:	07/09/25			
Weather:	70's °F, Cloudy			

INSTRUMENTATION INFORMATION

Instrument	Manufacturer	Model	GEI Identification No.	Calibrant	Successful Calibration
PID (ppm)	RAE Systems	miniRAE3000	SN 592-909711	100 ppm Isobutylene	Yes
Manometer (in. H_20)	Dwyer	Mark III-475-0000-FM	N/A	N/A	Zeroed before each reading
Hot Wire Thermo-Anemometer (ft/min)	Reed	R4500SD	N/A	N/A	Zeroed before each reading

OBSERVATIONS AND MEASUREMENTS

ENCLOSURE MEASUREMENTS

Shed Secure? NA

Condensate Accumulated? Yes

Condensate Drained? No

Influent Flow Rate

Port ID	Flow (cfm)
Manifold 12	97
Manifold 13	49
Manifold 14	88

System Monitoring Points

Port ID	Typical Vacuum Range (in. H_2O)	Vacuum (in. H_2O)	Typical Range of VOCs (ppb)	VOC Concentration (ppm)
Manifold 12	-0.300 to -0.500	-0.946	0 to 2000	0.0
Manifold 13	-0.300 to -0.500	-1.963	0 to 2000	0.0
Manifold 14	-0.300 to -0.500	-0.879	0 to 2000	0.0

EXTERIOR EXTRACTION MONITORING POINT MEASUREMENTS

Monitoring Point Identification	Status (on/off)	Vacuum (in. H_2O)	VOC Concentration (ppm)
122-1	on	-0.729	0.0
122-2	on	-0.776	0.0
122-3	on	-0.737	0.0
126-1	on	-0.688	0.0
126-2	on	-0.520	0.0
126-3	on	-0.528	0.0
134-1	on	-0.644	0.0
134-2	on	-0.506	0.0
134-3	on	-0.375	0.0
138-1	on	-1.537	0.0
138-2	on	-1.335	0.0
138-3	on	-1.277	0.0
142-1	on	-0.656	0.0
142-2	on	-0.677	0.0
142-3	on	-0.662	0.1
146-1	on	-0.649	0.0
146-2	on	-0.631	0.0
146-3	on	-0.586	0.0

Capuano Center Sub-Slab Depressurization System
Monthly Mechanical Inspection Log

INTERIOR MEASUREMENTS

Ambient Air Measurements

Classroom	VOC Concentration (ppm)
122	NM
126	NM
134	NM
138	NM
133	NM
137	NM
142	NM
146	NM

Sub-Slab Monitoring Points

Monitoring Point Identification	Vacuum (in. H_2O)	VOC Concentration (ppm)
Room 122A	NM	NM
Room 126A	NM	NM
Room 133A	NM	NM
Room 137A	NM	NM
Room 142A	NM	NM
Room 146A	NM	NM

COMMENTS

Notes:

1. Manifold 12 is the manifold pipe for rooms 122 and 126.
   Manifold 13 is the manifold pipe for rooms 134 and 138.
   Manifold 14 is the manifold pipe for rooms 142 and 146.
2. PID = photoionization detector.
3. ppb = parts per billion.
4. ppm = parts per million.
5. in. H_2O = inches of water column.
6. ft = feet.
7. cfm = cubic feet per minute.
8. NA = Not Applicable.
9. NM = Not Measured.
10. Anemometer not functioning. Influent flow was not measured.

Capuano Center Sub-Slab Depressurization System
Monthly Mechanical Inspection Log

GENERAL INFORMATION

			Outdoor Monitoring	Indoor Monitoring
GEI Field Representatives:	N. Troccolo	Start-time of monitoring work:	10:00 AM	NA
		End-time of monitoring work:	11:00 AM	NA
Date:	10/10/25			
Weather:	40's-50's °F, Sunny			

INSTRUMENTATION INFORMATION

Instrument	Manufacturer	Model	GEI Identification No.	Calibrant	Successful Calibration
PID (ppm)	RAE Systems	miniRAE3000	SN 592-911053	100 ppm Isobutylene	Yes
Manometer (in. H_20)	Dwyer	Mark III-475-0000-FM	N/A	N/A	Zeroed before each reading
Hot Wire Thermo-Anemometer (ft/min)	Reed	R4500SD	N/A	N/A	Zeroed before each reading

OBSERVATIONS AND MEASUREMENTS

ENCLOSURE MEASUREMENTS

Shed Secure? NA

Condensate Accumulated? Yes

Condensate Drained? No

Influent Flow Rate

Port ID	Flow (cfm)
Manifold 12	121
Manifold 13	106
Manifold 14	131

System Monitoring Points

Port ID	Typical Vacuum Range (in. H_2O)	Vacuum (in. H_2O)	Typical Range of VOCs (ppb)	VOC Concentration (ppm)
Manifold 12	-0.300 to -0.500	-0.959	0 to 2000	0.0
Manifold 13	-0.300 to -0.500	-1.589	0 to 2000	0.0
Manifold 14	-0.300 to -0.500	-0.837	0 to 2000	0.0

EXTERIOR EXTRACTION MONITORING POINT MEASUREMENTS

Monitoring Point Identification	Status (on/off)	Vacuum (in. H_2O)	VOC Concentration (ppm)
122-1	on	-0.619	0.0
122-2	on	-0.727	0.0
122-3	on	-0.702	0.0
126-1	on	-0.683	0.0
126-2	on	-0.530	0.0
126-3	on	-0.565	0.0
134-1	on	-1.318	0.0
134-2	on	-1.428	0.0
134-3	on	-1.311	0.0
138-1	on	-1.415	0.0
138-2	on	-1.413	0.0
138-3	on	-1.425	0.0
142-1	on	-0.519	0.0
142-2	on	-0.540	0.0
142-3	on	-0.522	0.1
146-1	on	-0.503	0.0
146-2	on	-0.507	0.0
146-3	on	-0.496	0.0

Capuano Center Sub-Slab Depressurization System
Monthly Mechanical Inspection Log

INTERIOR MEASUREMENTS

Ambient Air Measurements

Classroom	VOC Concentration (ppm)
122	NM
126	NM
134	NM
138	NM
133	NM
137	NM
142	NM
146	NM

Sub-Slab Monitoring Points

Monitoring Point Identification	Vacuum (in. H_2O)	VOC Concentration (ppm)
Room 122A	NM	NM
Room 126A	NM	NM
Room 133A	NM	NM
Room 137A	NM	NM
Room 142A	NM	NM
Room 146A	NM	NM

COMMENTS

Notes:

1. Manifold 12 is the manifold pipe for rooms 122 and 126.
   Manifold 13 is the manifold pipe for rooms 134 and 138.
   Manifold 14 is the manifold pipe for rooms 142 and 146.
2. PID = photoionization detector.
3. ppb = parts per billion.
4. ppm = parts per million.
5. in. H_2O = inches of water column.
6. ft = feet.
7. cfm = cubic feet per minute.
8. NA = Not Applicable.
9. NM = Not Measured.
10. Anemometer not functioning. Influent flow was not measured.

Appendix J EPMM Inspection Forms

EPMM Options 2 and 3
Field Monitoring / Inspection Form

GENERAL MONITORING INFORMATION FOR PASSIVE EPMM SYSTEMS

GEI Field Representative(s):	N. Troccolo D. Miller	**Property Address:**	91-93 Franklin Street
Date:	12/19/2025	**Monitoring Start Time:**	7:30 AM
Weather:	Cloudy, ~53° F	**Monitoring End Time:**	7:45 AM
		Option 2 or 3:	2 / (3)

INSTRUMENTATION INFORMATION

Instrument	Manufacturer	Model	Serial No.	Calibrated To:	Successful Calibration?
PID (ppm)	RAE Systems	miniRAE3000	592-909687	100 ppm Isobutylene	(Y) / N Cal. Reading (ppm): 100.2

FIELD MEASUREMENTS / OBSERVATIONS

System Status/Configuration

Exterior Pipe Condition (cracks, damage, etc.)?	(good) / fair / poor
Interior Pipe Condition (cracks, damage, etc.)?	(good) / fair / poor
Epoxy Condition (cracks, peeling, water damage, etc.)?	good / (fair) / poor
Slab or Wall Cracks / Openings That Impair System Performance?	Y / (N)
Downdraft Prevention Cap Present?	(Y) / N

NOTES

1. EPMM = Exposure Pathway Mitigation Measure.
2. Option 2 = Consists of a venting system installed in a shallow trench around the interior basement floor perimeter, cement stucco applied to the walls, and an epoxy vapor barrier applied to the walls and floor.
4. Option 3 = Consists of a venting system installed beneath the basement floor, a new concrete floor slab, cement stucco applied to the walls, and an epoxy vapor barrier applied to the walls and floor.
5. ppm = parts per million.
6. PID = photoionization detector.
7. VOC = volatile organic compound.

COMMENTS

1. Brick dust observed on walls and pipes.
2. Previous water damage around furnace and spread towards central basement was not observed. Dehumidifier present now.
3. Minor peeling of epoxy layer on some areas of wall by bulkhead door/windows, by bottom of stairs, and at wall/floor interface. 0.0 ppm
4. Ambient Air = 0.0 ppm

EPMM Options 2 and 3
Field Monitoring / Inspection Form

GENERAL MONITORING INFORMATION FOR PASSIVE EPMM SYSTEMS

GEI Field Representative(s):	N. Troccolo D. Miller	**Property Address:**	32 Knowlton Street
Date:	12/19/2025	**Monitoring Start Time:**	11:00 AM
Weather:	Rain, ~56°F	**Monitoring End Time:**	11:10 AM
		Option 2 or 3:	2 / (3)

INSTRUMENTATION INFORMATION

Instrument	Manufacturer	Model	Serial No.	Calibrated To:	Successful Calibration?
PID (ppm)	RAE Systems	ppmRAE3000	592-909687	100 ppm Isobutylene	(Y) / N Cal. Reading (ppm): 100.2

FIELD MEASUREMENTS / OBSERVATIONS

System Status/Configuration

Exterior Pipe Condition (cracks, damage, etc.)?	(good) / fair / poor
Interior Pipe Condition (cracks, damage, etc.)?	(good) / fair / poor
Epoxy Condition (cracks, peeling, water damage, etc.)?	(good) / fair / poor
Slab or Wall Cracks / Openings That Impair System Performance?	Y / (N)
Downdraft Prevention Cap Present?	(Y) / N

NOTES

1. EPMM = Exposure Pathway Mitigation Measure.
2. Option 2 = Consists of a venting system installed in a shallow trench around the interior basement floor perimeter, cement stucco applied to the walls, and an epoxy vapor barrier applied to the walls and floor.
4. Option 3 = Consists of a venting system installed beneath the basement floor, a new concrete floor slab, cement stucco applied to the walls, and an epoxy vapor barrier applied to the walls and floor.
5. ppm = parts per million.
6. PID = photoionization detector.
7. VOC = volatile organic compound.

COMMENTS

1. Basement is partially finished with some SSDS pipes hidden behind walls. No piping is visible.
2. Exterior piping appeared in good condition.
3. Ambient Air = 0.0 ppm
4. One noticeable crack on the basement floor

EPMM Option 4
Field Monitoring / Inspection Form

GENERAL MONITORING INFORMATION FOR PASSIVE EPMM SYSTEMS

GEI Field Representative(s):	N. Troccolo D. Miller	**Property Address:**	34 Knowlton St
Date:	12/19/2025	**Monitoring Start Time:**	8:30 AM
Weather:	Rain, ~56°F	**Monitoring End Time:**	8:45 AM

INSTRUMENTATION INFORMATION

Instrument	Manufacturer	Model	Serial No.	Calibrated To:	Successful Calibration?
PID (ppm)	RAE Systems	ppmRAE3000	592-909687	100 ppm Isobutylene	(Y) / N Cal. Reading (ppm): 100.2

FIELD MEASUREMENTS / OBSERVATIONS

System Status/Configuration

Exterior Pipe Condition (cracks, damage, etc.)?	good / fair / poor	Not observed.
Interior Pipe Condition (cracks, damage, etc.)?	(good) / fair / poor	
Slab or Wall Cracks / Openings That Impair System Performance?	Y / (N)	
Downdraft Prevention Cap Present?	Y / (N)	

NOTES

1. EPMM = Exposure Pathway Mitigation Measure.
2. Option 4 = Consists of a venting system installed in gravel with riser pipes through the roof, a sub slab vapor barrier, and new concrete floor.
3. ppm = parts per million.
4. PID = photoionization detector.
5. VOC = volatile organic compound.

COMMENTS

1. Crack in wall by back stairs/under window.
2. Ambient Air = 0.2 ppm

EPMM Options 2 and 3
Field Monitoring / Inspection Form

GENERAL MONITORING INFORMATION FOR PASSIVE EPMM SYSTEMS

GEI Field Representative(s):	N. Troccolo	**Property Address:**	11 Morton Street
Date:	12/19/2025	**Monitoring Start Time:**	12:00 PM
Weather:	Rain, ~58°F	**Monitoring End Time:**	12:15 PM
		Option 2 or 3:	(2) / 3

INSTRUMENTATION INFORMATION

Instrument	Manufacturer	Model	Serial No.	Calibrated To:	Successful Calibration?
PID (ppm)	RAE Systems	ppmRAE3000	592-909687	100 ppm Isobutylene	(Y) / N Cal. Reading (ppm): 100.2

FIELD MEASUREMENTS / OBSERVATIONS

System Status/Configuration

Exterior Pipe Condition (cracks, damage, etc.)?	(good) / fair / poor
Interior Pipe Condition (cracks, damage, etc.)?	(good) / fair / poor
Epoxy Condition (cracks, peeling, water damage, etc.)?	(good) / fair / poor
Slab or Wall Cracks / Openings That Impair System Performance?	Y / (N)
Downdraft Prevention Cap Present?	(Y) / N

NOTES

1. EPMM = Exposure Pathway Mitigation Measure.
2. Option 2 = Consists of a venting system installed in a shallow trench around the interior basement floor perimeter, cement stucco applied to the walls, and an epoxy vapor barrier applied to the walls and floor.
4. Option 3 = Consists of a venting system installed beneath the basement floor, a new concrete floor slab, cement stucco applied to the walls, and an epoxy vapor barrier applied to the walls and floor.
5. ppm = parts per million.
6. PID = photoionization detector.
7. VOC = volatile organic compound.

COMMENTS

1. Ambient Air = 0.1 ppm
2. On walls, in storage 1 & 2, minor staining and flaking of epoxy.
3. On floor, by door to finished side of basement, minor cracking of expoy.
4. Owner noted a drainage system was installed in the basement to aleve basement flooding, along with a sump by the system influent pipe.
   - Appears to just have concrete and no epoxy covering the drainage piping (french drain).
5. Two Riser Pipes present - one does not have downdraft prevention cap and other riser not observed.

EPMM Options 2 and 3
Field Monitoring / Inspection Form

GENERAL MONITORING INFORMATION FOR PASSIVE EPMM SYSTEMS

GEI Field Representative(s):	D. Miller	**Property Address:**	12 Morton Street
Date:	12/19/2025	**Monitoring Start Time:**	9:30 AM
Weather:	Rain, ~50°F	**Monitoring End Time:**	9:45 AM
		Option 2 or 3:	2 / (3)

INSTRUMENTATION INFORMATION

Instrument	Manufacturer	Model	Serial No.	Calibrated To:	Successful Calibration?
PID (ppm)	RAE Systems	miniRAE3000	592-909687	100 ppm Isobutylene	(Y) / N Cal. Reading (ppm): 100.2

FIELD MEASUREMENTS / OBSERVATIONS

System Status/Configuration

Exterior Pipe Condition (cracks, damage, etc.)?	(good) / fair / poor
Interior Pipe Condition (cracks, damage, etc.)?	(good) / fair / poor
Epoxy Condition (cracks, peeling, water damage, etc.)?	(good) / fair / poor
Slab or Wall Cracks / Openings That Impair System Performance?	Y / (N)
Downdraft Prevention Cap Present?	(Y) / N

NOTES

1. EPMM = Exposure Pathway Mitigation Measure.
2. Option 2 = Consists of a venting system installed in a shallow trench around the interior basement floor perimeter, cement stucco applied to the walls, and an epoxy vapor barrier applied to the walls and floor.
4. Option 3 = Consists of a venting system installed beneath the basement floor, a new concrete floor slab, cement stucco applied to the walls, and an epoxy vapor barrier applied to the walls and floor.
5. ppm = parts per million.
6. PID = photoionization detector.
7. VOC = volatile organic compound.

COMMENTS

1. Ambient Air = 0.1 ppm
2. Tenat (Joel T.) stated basement flooded last year, drywall for space was replaced.

EPMM Option 1
Field Monitoring / Inspection Form

GENERAL MONITORING INFORMATION

GEI Field Representative(s):	N. Troccolo	**Address:**	13 Morton Street
		Monitoring Start Time:	10:00 AM
Date:	12/18/2025	**Monitoring End Time:**	10:15 AM
Weather:	Sunny, ~35° F		

INSTRUMENTATION INFORMATION

Instrument	Manufacturer	Model	Serial No.	Calibrated To:	Successful Calibration?
PID (ppm)	RAE Systems	miniRAE3000	592-909687	100 ppm Isobutylene Time: 06:50 AM	(Y) / N Cal. Reading (ppm): 100.1
Manometer (in. H_2O)	Dwyer	Mark 111-475-0 Series	475-000-FM	N/A	Zeroed before each reading? (Y) / N

FIELD MEASUREMENTS / OBSERVATIONS

System Status/Configuration		Pressure/VOC Measurements			
		Monitoring Point	Pressure (in. H_2O)	VOC (ppm)	Location Description (e.g., distance from foundation walls)
Radon Fan On?	Y / (N)	System Influent Pipe	-3.4	0.0	
Exterior Fan Condition (housing, wires, etc)?	(good) / fair / poor	System Influent Pipe (Dwyer Manometer)	-3.9	0.0	
Excessive fan noise?	Y / (N)	SS1	0.000	0.0	Near building column between furnace and back wall; see comment (4.)
Interior Extraction Pipe Condition (cracks, damage, etc)?	(good) / fair / poor	Ambient Air	N/A	0.0	
Exterior Pipe Condition (cracks, damage, etc.)?	(good) / fair / poor				
Leaks Around Slab Penetrations?	Y / (N)				
Slab or Wall Cracks / Openings That Impair System Performance?	Y / (N)				

NOTES:

1. EPMM = Exposure Pathway Mitigation Measure.
2. ppm = parts per million.
3. PID = photoionization detector.
4. N/A = Not Applicable.
5. VOC = volatile organic compound.
6. in. H_2O = inches of water column.
7. NM = Not Measured.

COMMENTS:

1. Noted exposed cut in slab for water main in back of basement (unclear what covers water main, material crumbles), 0.0 ppm
2. Downdraft prevention cap missing
3. SS1 point still filled with dust may have impaired readings; needs to be cleaned out.
4. Observed an area of peeling paint on wall by bulkhead door; concrete here is also worn and in poor condition.

EPMM Option 1
Field Monitoring / Inspection Form

GENERAL MONITORING INFORMATION

GEI Field Representative(s):	D. Miller	**Address:**	18 Morton Street
		Monitoring Start Time:	9:45 AM
Date:	12/19/2025	**Monitoring End Time:**	10:00 AM
Weather:	Rain, ~50° F		

INSTRUMENTATION INFORMATION

Instrument	Manufacturer	Model	Serial No.	Calibrated To:	Successful Calibration?
PID (ppm)	RAE Systems	ppmRAE3000	592-909687	100 ppm Isobutylene Time:	(Y) / N Cal. Reading (ppm): 100.2
Manometer (in. H_2O)	Dwyer	Mark 111-475-0 Series	475-000-FM	N/A	Zeroed before each reading? (Y) / N

FIELD MEASUREMENTS / OBSERVATIONS

System Status/Configuration		Pressure/VOC Measurements			
		Monitoring Point	Pressure (in. H_2O)	VOC (ppm)	Location Description (e.g., distance from foundation walls)
Radon Fan On?	(Y) / N	System Influent Pipe	-1.0	0.1	
Exterior Fan Condition (housing, wires, etc)?	(good) / fair / poor	System Influent Pipe (Dwyer Manometer)	-0.927	0.1	
Excessive fan noise?	Y / (N)	SS1	NM	NM	Under new tile/laundry area in finished portion of basement
Interior Extraction Pipe Condition (cracks, damage, etc)?	(good) / fair / poor	SS2	0	-0.038	By boiler chimney
Exterior Pipe Condition (cracks, damage, etc.)?	(good) / fair / poor	ambient air	N/A	0.0 - 0.2	
Leaks Around Slab Penetrations?	Y / (N)				
Slab or Wall Cracks / Openings That Impair System Performance?	Y / (N)				

NOTES:

1. EPMM = Exposure Pathway Mitigation Measure.
2. ppm = parts per million.
3. PID = photoionization detector.
4. N/A = Not Applicable.
5. VOC = volatile organic compound.
6. in. H_2O = inches of water column.
7. NM = Not Measured.

COMMENTS:

1. No downdraft prevention cap present.
2. Sump pump in basement PID = 0.0 ppm
3. Old sewer cleanout hole by front of basement PID = 0.0 ppm. Portion of basement is finished with lanudry (back area) and ongoing work throughout basement.

EPMM Options 2 and 3
Field Monitoring / Inspection Form

GENERAL MONITORING INFORMATION FOR PASSIVE EPMM SYSTEMS

GEI Field Representative(s):	D. Miller N. Troccolo	**Property Address:**	19-19A Morton Street
Date:	12/19/25	**Monitoring Start Time:**	7:05 AM
Weather:	Cloudy, ~50°F	**Monitoring End Time:**	7:20 AM
		Option 2 or 3:	2 / (3)

INSTRUMENTATION INFORMATION

Instrument	Manufacturer	Model	Serial No.	Calibrated To:	Successful Calibration?
PID (ppm)	RAE Systems	ppmRAE3000	592-909687	100 ppm Isobutylene	(Y) / N Cal. Reading (ppm): 100.2

FIELD MEASUREMENTS / OBSERVATIONS

System Status/Configuration

Exterior Pipe Condition (cracks, damage, etc.)?	(good) / fair / poor
Interior Pipe Condition (cracks, damage, etc.)?	(good) / fair / poor
Epoxy Condition (cracks, peeling, water damage, etc.)?	good / (fair) / poor
Slab or Wall Cracks / Openings That Impair System Performance?	Y / (N)
Downdraft Prevention Cap Present?	(Y) / N

NOTES

1. EPMM = Exposure Pathway Mitigation Measure.
2. Option 2 = Consists of a venting system installed in a shallow trench around the interior basement floor perimeter, cement stucco applied to the walls, and an epoxy vapor barrier applied to the walls and floor.
4. Option 3 = Consists of a venting system installed beneath the basement floor, a new concrete floor slab, cement stucco applied to the walls, and an epoxy vapor barrier applied to the walls and floor.
5. ppm = parts per million.
6. PID = photoionization detector.
7. VOC = volatile organic compound.

COMMENTS

1. Observed peeling epoxy in few locations on floor and wall, especially near stairs. Minor peeling at wall/floor interface.
2. Exposed concrete where water heater was replaced observed in 2018. Did not observe in 2025.
3. In 2018, minor water damage was observed near stairs, and at wall adjacent to Morton Street. No water damage observed in 2025.
4. Ambient Air = 0.0 ppm.

Appendix K Atlas Documentation

10 State Street, Suite 100
Woburn, MA 01801
781.932.9400 | oneatlas.com

May 9, 2025

Massachusetts Department of Environmental Protection *via: eDEP*
Bureau of Waste Site Cleanup
15 Presidential Way
Woburn, Massachusetts

SUBJECT: Contained-In Determination
Soil from Tufts Street Right-of-Way Improvements
Somerville, MA
RTN 3-51811
Atlas Project No.: 6000007464

Dear Program Manager:

Atlas Technical Consultants LLC (Atlas) has been retained by the City of Somerville to provide Massachusetts Contingency Plan (310 CMR 40.0000)(MCP) and related Licensed Site Professional (LSP) services to support the Tufts Street Improvement Project. On behalf of the City of Somerville, I have made a "contained-in" determination (CID) following the approach presented in the Massachusetts Department of Environmental Protection's (MassDEP) Technical Update, Considerations for Managing Contaminated Soil: RCRA Land Disposal Restrictions and Contained-In Determination (2010) regarding soil from a portion of the following M.G.L. c. 21E disposal site:

Release Tracking Number:	3-51811
Site Name:	Tufts Street Right-of-Way Improvements
Street Address:	Tufts Street right-of-way from Cross Street to Washington Street
City/Town:	Somerville, MA
Zip Code:	02145

The soil contained the listed hazardous waste(s) with Waste Codes U043, U210 and U228, which MassDEP is authorized to regulate under the Resource Conservation and Recovery Act (RCRA) by the U.S. Environmental Protection Agency (USEPA). However, the soil (check one):

☒ Met all applicable S-1 standards upon removal*; or

☐ Was treated through a method of treatment other than dilution so as to meet all applicable S-1 standards.

*The soil noted herein has been pre-characterized in-situ and has been determined to meet applicable S-1 standards.

The levels of the listed hazardous waste constituents in the soils to be generated are:

Summary of Detected Listed Waste within Contained-In Determination						
Sample Name / Depth	Sample Date	Substance/CAS # / Waste Code	Results (ppm)	MCP Method 1S-1 Standards		
				S-1 Soil & GW-1	S-1 Soil & GW-2	S-1 Soil & GW-3
ATC-8, 5-10'	3/14/24	Tetrachloroethylene (PCE) / 127-18-4 / U210	0.134	1 ppm	4 ppm	100 ppm
50Tuft-B101, 0-1'	2/12/24		0.0023			
50Tuft-B101,3 - 5'	2/12/24		0.015			
50Tuft-B102, 0-1'	2/12/24		0.00048			
50Tuft-B102, 1-3'	2/12/24		0.001			
50Tuft-B104, 0-1'	2/12/24		0.023			
50Tuft-B104, 1-3'	2/12/24		0.015			
50Tuft-B105, 0-1'	2/12/24		0.81			
50Tuft-B105, 1-3'	2/12/24		0.01			
50Tuft-B102, 1-3'	2/12/24	Trichloroethene (TCE) / 79-01-06 / U228	0.00037	0.3	0.3	30
50Tuft-B105, 0-1'	2/12/24	Vinyl Chloride / 75-01-04 / U043	0.053	0.3	0.3	0.3

The City of Somerville Tufts Street Improvement Project is to implement traffic calming and accessibility improvements that will reconstruct sidewalks, install new raised stormwater inlets drains to improve the existing stormwater management system, and repave Tufts Street between Cross Street and Washington Street as part of the City's Pavement and Sidewalk Management Program. Most excavations will be limited to 3 feet below grade with some excavations for drainage structure connections / rehabilitations extending to 5 feet below grade. Groundwater has been observed to range from approximately 7 to 13 feet below grade in the majority of the area where excavation will occur. To the extent practicable, soil will be reused in the area from which it was excavated. The limit of work is shown on attached **Figures 1 and 2.**

Most work is located within a Disposal Site listed by the MassDEP under Release Tracking Number (RTN) 3-23246. **Figure 1** shows the northern extent of the Disposal Site as it relates to limits of work and all the proposed work shown on **Figure 2** is within the Disposal Site. This Disposal Site is associated with a release of tetrachloroethylene, also known as perchloroethylene (PCE), to soil and groundwater from a former drycleaner facility located at the abutting 50 Tufts Street property. Based upon a review of reports submitted to MassDEP for RTN 3-23246 Atlas concludes that the vertical extent of this Disposal Site begins just below the pavement surface and extends to at least 10 feet below grade.

On March 14 and 15, 2024, Atlas supervised the installation of 8 soil borings identified as ATC-1 to ATC-8 for sampling and laboratory analyses of soil to conduct in-situ pre-characterization of soil within the Tufts Street right-of-way. Locations were selected to reflect areas where soil excavation was proposed to support planned work. Soil borings ATC-4 to ATC-8 are located within the Disposal Site. Soil boring ATC-3 is located at the approximate northeast edge of the Disposal Site and borings ATC-1 and ATC-2 are located outside the Disposal Site. Two soil samples from each boring, for a total of sixteen (16) soil samples, were collected. At each boring location, a discrete soil sample was collected by hand auger during preclearing from 0 to 5 feet below grade and using a dedicated acetate liners using a Geoprobe drill rig from 5 to 10 feet below grade surface. Soil boring locations are shown on **Figures 1 and 2.**

Soil samples from each boring were screened for total volatile organic compounds (VOCs), i.e., headspace, with a pre-calibrated photoionization detector (PID) in accordance with the MassDEP jar headspace method.

The soil samples were placed in laboratory provided containers and submitted to Eurofins laboratory under a chain of custody and analyzed for low level volatile organic compounds (VOCs) by EPA Method 8260.

Two sets of composite soil samples were collected from the 8 soil borings. One set (ATC-1 to ATC-8 Composite 0-5') was from the 0 to 5 feet below grade interval and the other set (ATC-1 to ATC-8 Composite 5-10') was from 5 to 10 foot below surface interval. These samples were placed in properly preserved laboratory provided containers and submitted to Eurofins laboratory under a chain-of-custody for the following analyses typically required by soil management facilities:

- Semi-VOCs with low level PAHs (SIMS) by EPA Method 8270;
- PCBs by EPA Method 8082;
- RCRA 8 Metals; TCLP lead;
- Total Petroleum Hydrocarbons by 8100; and
- Corrosivity; Total Organic Carbon; Flashpoint; Reactivity Cyanide and Sulfide; and Conductivity.

The soil analytical results were non-detect for all VOCs at 15 of 16 samples. Only PCE at 0.0314 milligrams per kilogram (mg/kg) was detected in soil boring ATC-8 at 5-10 feet below grade surface. The soil analyses do not exhibit any hazardous waste characteristics pursuant to 310 CMR 30.120. All detected compounds reported were below their MCP Method 1 Standards as were the detection limits for those compounds not detected. A summary of VOC soil data is presented in attached **Table 1**. The associated laboratory report is attached.

Atlas reviewed previous submittals and associated soil data made to the MassDEP for the following RTNs associated with 50 Tufts Street or in the immediate area for data relevant to this CID:

- RTNs 3-23246 / 3-24358 / 3-26114 / 3-35528 for 50 Tufts Street;
- RTNs 3-28231 / 3-30620 associated with MBTA/Green Line Extension work in the area;
- RTN 3-37468 for 31 Tufts Street associated with impacts from 50 Tufts Street; and
- RTN 3-14792 for 60 Tufts Street associated with asbestos only.

Relevant data from soil samples collected near the Tufts Street right-of-way are included on **Table 1** and the summary table above. Due to the age of the original VOC release associated with 50 Tufts Street, completed and ongoing remediation and/or Exposure Pathway Mitigation Measures (EPMM) at 23, 27, 31, 50, and 60 Tufts Street as well as 121 Washington Street, soil data more than 10 years old is not considered representative of current site conditions and was not included in the data summary tables. EPMMs include Active Exposure Pathway Mitigation Measures (AEPMM) and passive subslab venting systems. Furthermore, data was excluded if it was from more than 10 feet below grade or there was more recent data available between it and the right-of-way.

Based upon the above, the only relevant soil data for this CID was found in the Phase V Status Report No. 26 and Remedial Monitoring Report No. 41, 50 Tufts Street (GEI Consultants, Inc., August 2024). This submittal documents how on February 12, 2024, GEI collected shallow soil samples to the northwest and southeast of the 50 Tufts Street building, adjacent to street improvement work zone from 5 soil borings (B101 to B105) advanced up to 5 feet below grade. These soil boring locations are shown on **Figures 1 and 2**. Based upon the detected PCE and vinyl chloride concentrations all being below all their Method 1 Soil Standards as supported by the information presented herein, these soils are eligible for a CID.

Soil data from samples collected from B103 0-1' and B103 1-3' exhibit concentrations of PCE above its Method 1 Standards. Therefore, additional assessments will be performed in the area shown on **Figures 1 and 2** before these soils are managed under this CID. It is estimated that approximately 50 tons (35 CY) of soil will be excavated from the area around B103. In the immediate area of B103, excavation will be limited to what is required to reconstruct the existing sidewalk. The soil may be further characterized as work progresses to see if it meets this CID requirements. This will involve collecting soil samples from excavations in this area and submitting for laboratory CVOC analysis. A soil sample will be collected from the excavation area as work progresses at a rate

of no more than every 15 CY. If the reported CVOC concentrations in a sample are all less than their MCP Method 1 S-1/GW-1/GW-2/GW-3 Standards, the CID will be applicable to the soil represented by this sample.

A summary of VOC soil data identified by Atlas as relevant to this CID is presented in attached **Table 1** and included in the table above. The associated data summary table, figure and laboratory report from GEI's 2024 report previously submitted to MassDEP is also attached.

The soil management activities associated with this CID Petition will be conducted as a Utility-related Release Abatement Measure (URAM) under **RTN 3-51811.** The contract documents for the work estimate that up to 520 tons (approximately 375 cubic yards) of soil will require offsite management from the area represented by the soil data presented herein and covered by this CID, with the potential for an additional 50 tons (35 cubic yards) from around B103 if supported by data collected as work progresses. As noted above, most excess soil will come from less than 3 feet below grade with limited areas where stormwater catch basins are being replaced extending to 5 feet below grade. None of these deeper areas are located adjacent to the area excluded from this CID.

I understand that this "contained-in" determination is subject to a 21-day period during which the determination is subject to review by the MassDEP and that the soil cannot be managed as non-hazardous waste until the 21-day review period passes without objection from MassDEP or USEPA. A copy of the validated and unsigned BWSC-126 Miscellaneous Document Transmittal Form submitted concurrently with this CID is **Attached**.

I also understand that if the soil is to be transported out-of-state, it must first be determined if the operator of the landfill or other receiving facility and the relevant state agency (or the relevant USEPA region, if the state does not administer the RCRA program) are willing to accept contained-in determinations performed by a Massachusetts Licensed Site Professional. In doing so, the process by which "contained-in" determinations are performed in Massachusetts will be explained to the relevant parties and proper documentation of all conversations will be retained.

I, Michael Gitten, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this submittal, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the person or entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate or incomplete information.

Respectfully submitted,
ATLAS

By: Michael Gitten 5/12/25

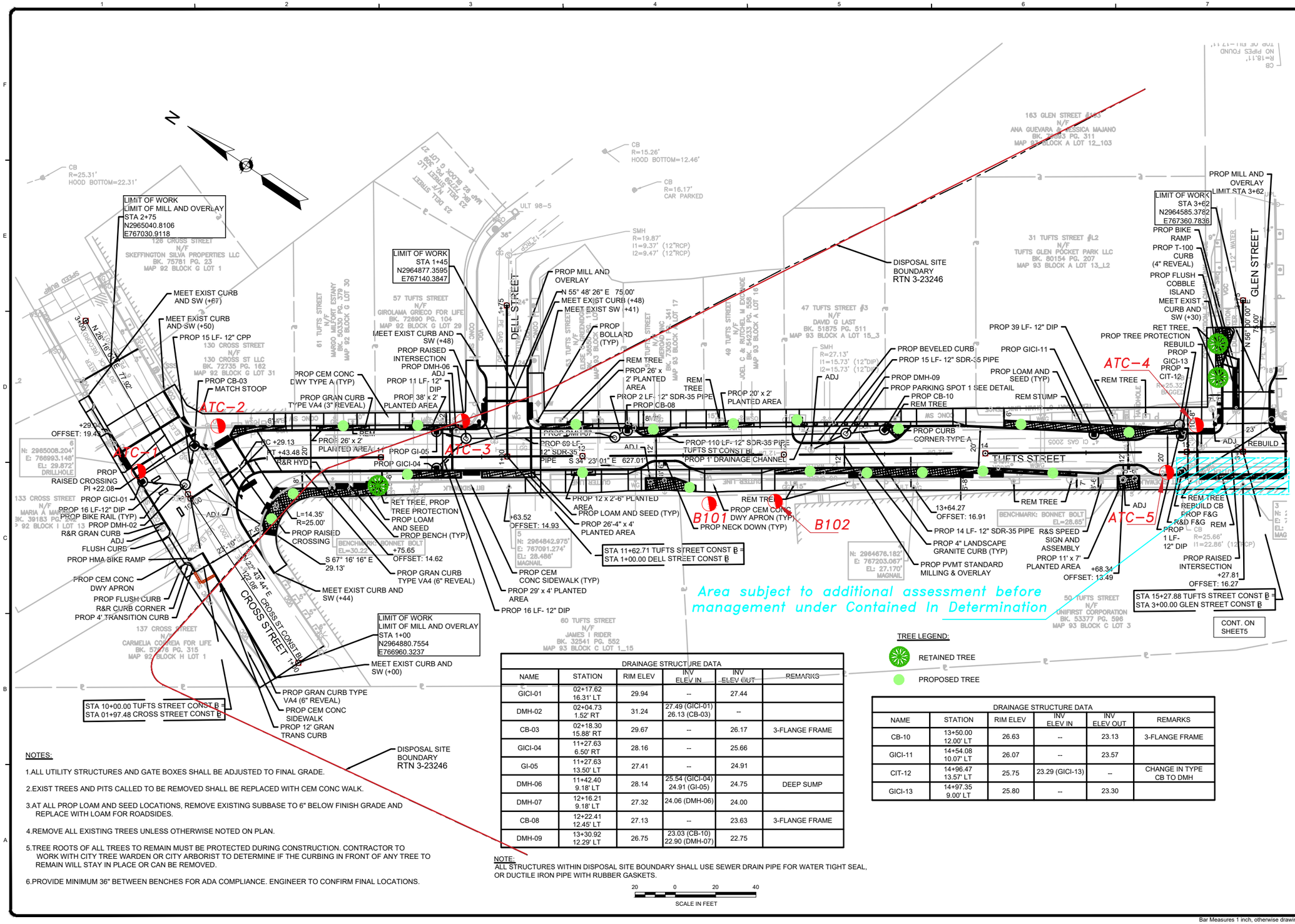
Signature Date

LSP #: 7505
LSP Name: Michael Gitten, LSP
Telephone: 781-404-1439

For: City of Somerville
Name of person or entity

Attachments:
Figure 1 - Northwestern Project Extent
Figure 2 - Southeastern Project Extent
Table 1 - Soil analytical Data Summary
Laboratory Analytical Data Report – Atlas
Supporting Information from RTN 3-23246
Draft BWSC-126

Cc: Rebecca Wright, Somerville rwright@somervillema.gov File: cid petition-somerville-tufts st improvements-5.9.25



DRAINAGE STRUCTURE DATA					
NAME	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
GICI-01	02+17.62 16.31' LT	29.94	--	27.44	
DMH-02	02+04.73 1.52' RT	31.24	27.49 (GICI-01) 26.13 (CB-03)	--	
CB-03	02+18.30 15.88' RT	29.67	--	26.17	3-FLANGE FRAME
GICI-04	11+27.63 6.50' RT	28.16	--	25.66	
GI-05	11+27.63 13.50' LT	27.41	--	24.91	
DMH-06	11+42.40 9.18' LT	28.14	25.54 (GICI-04) 24.91 (GI-05)	24.75	DEEP SUMP
DMH-07	12+16.21 9.18' LT	27.32	24.06 (DMH-06)	24.00	
CB-08	12+22.41 12.45' LT	27.13	--	23.63	3-FLANGE FRAME
DMH-09	13+30.92 12.29' LT	26.75	23.03 (CB-10) 22.90 (DMH-07)	22.75	

DRAINAGE STRUCTURE DATA					
NAME	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
CB-10	13+50.00 12.00' LT	26.63	--	23.13	3-FLANGE FRAME
GICI-11	14+54.08 10.07' LT	26.07	--	23.57	
CIT-12	14+96.47 13.57' LT	25.75	23.29 (GICI-13)	--	CHANGE IN TYPE CB TO DMH
GICI-13	14+97.35 9.00' LT	25.80	--	23.30	

NOTES:

1. ALL UTILITY STRUCTURES AND GATE BOXES SHALL BE ADJUSTED TO FINAL GRADE.
2. EXIST TREES AND PITS CALLED TO BE REMOVED SHALL BE REPLACED WITH CEM CONC WALK.
3. AT ALL PROP LOAM AND SEED LOCATIONS, REMOVE EXISTING SUBBASE TO 6" BELOW FINISH GRADE AND REPLACE WITH LOAM FOR ROADSIDES.
4. REMOVE ALL EXISTING TREES UNLESS OTHERWISE NOTED ON PLAN.
5. TREE ROOTS OF ALL TREES TO REMAIN MUST BE PROTECTED DURING CONSTRUCTION. CONTRACTOR TO WORK WITH CITY TREE WARDEN OR CITY ARBORIST TO DETERMINE IF THE CURBING IN FRONT OF ANY TREE TO REMAIN WILL STAY IN PLACE OR CAN BE REMOVED.
6. PROVIDE MINIMUM 36" BETWEEN BENCHES FOR ADA COMPLIANCE. ENGINEER TO CONFIRM FINAL LOCATIONS.

NOTE:
ALL STRUCTURES WITHIN DISPOSAL SITE BOUNDARY SHALL USE SEWER DRAIN PIPE FOR WATER TIGHT SEAL, OR DUCTILE IRON PIPE WITH RUBBER GASKETS.

20 0 20 40
SCALE IN FEET

Bar Measures 1 inch, otherwise drawing not to scale

TETRA TECH
www.tetratech.com
100 Nickerson Road
Marlborough, Massachusetts 01752
Phone: (508) 786-2200 Fax: (508) 786-2201

ATLAS

MARK	DATE	DESCRIPTION	BY
0	5/24/24	80% DESIGN SUBMISSION	KW
1	9/19/24	100% DESIGN SUBMISSION	KW
2	12/17/24	PSE SUBMISSION	KW

City of Somerville
2024 Street Improvements
Somerville, Massachusetts
Tufts Street
General Plan

PROJ: 143-314177-23002
DESN: KW
DRWN: JJ
CHKD: EP

4 OF 19

Contained In Determination Petition
Northwestern Project Extent
City of Somerville
Tufts Street Right of Way Improvments
Somerville, MA

Project Number: 6000007464
Date: 05/08/2025
Drn. By: AGL
Ckd. By: MSG
Scale: AS SHOWN
Figure: 1

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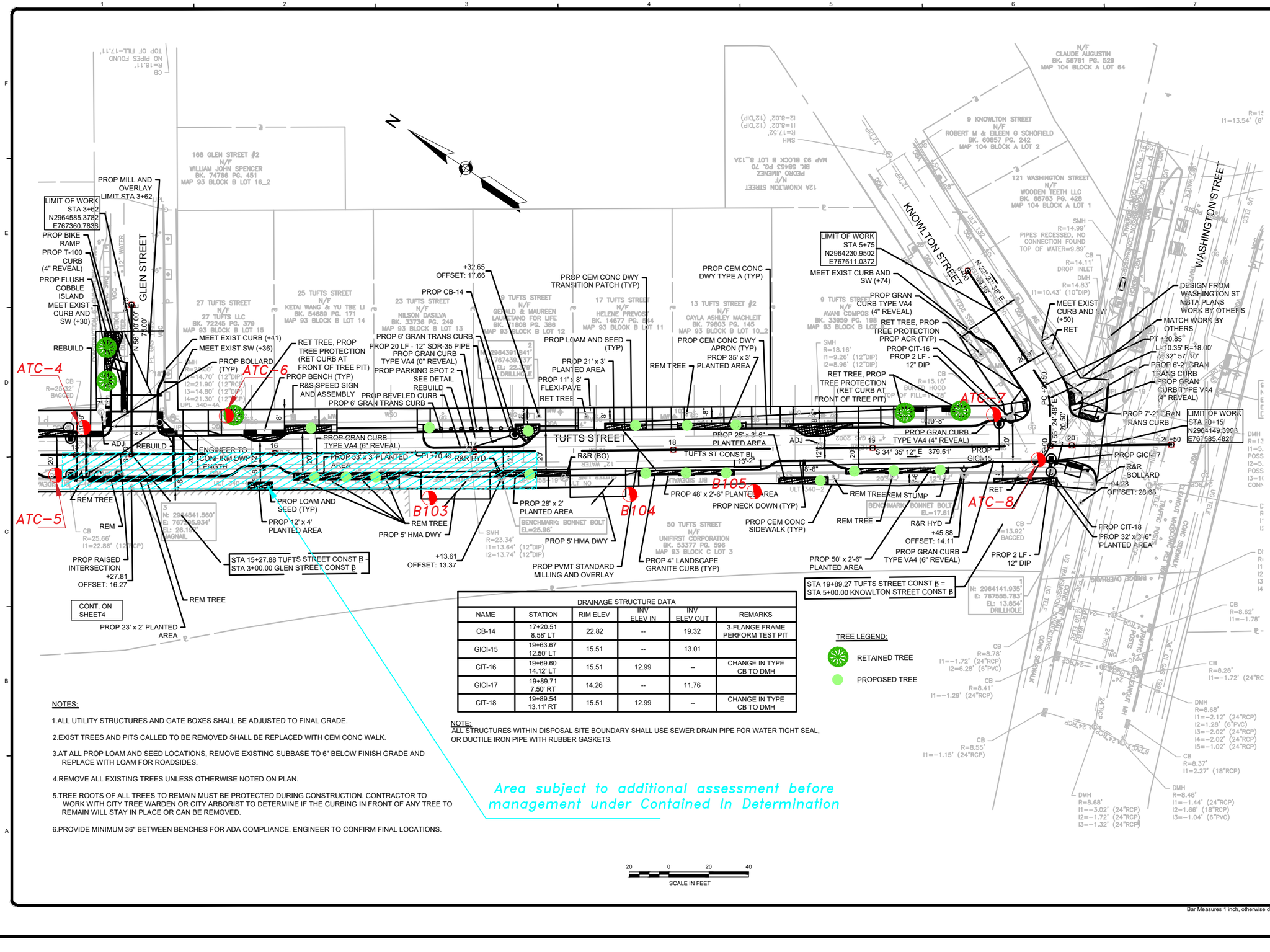

DRAINAGE STRUCTURE DATA

NAME	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
CB-14	17+20.51 8.58' LT	22.82	--	19.32	3-FLANGE FRAME PERFORM TEST PIT
GICI-15	19+63.67 12.50' LT	15.51	--	13.01	
CIT-16	19+69.60 14.12' LT	15.51	12.99	--	CHANGE IN TYPE CB TO DMH
GICI-17	19+89.71 7.50' RT	14.26	--	11.76	
CIT-18	19+89.54 13.11' RT	15.51	12.99	--	CHANGE IN TYPE CB TO DMH

NOTES:

1. ALL UTILITY STRUCTURES AND GATE BOXES SHALL BE ADJUSTED TO FINAL GRADE.
2. EXIST TREES AND PITS CALLED TO BE REMOVED SHALL BE REPLACED WITH CEM CONC WALK.
3. AT ALL PROP LOAM AND SEED LOCATIONS, REMOVE EXISTING SUBBASE TO 6" BELOW FINISH GRADE AND REPLACE WITH LOAM FOR ROADSIDES.
4. REMOVE ALL EXISTING TREES UNLESS OTHERWISE NOTED ON PLAN.
5. TREE ROOTS OF ALL TREES TO REMAIN MUST BE PROTECTED DURING CONSTRUCTION. CONTRACTOR TO WORK WITH CITY TREE WARDEN OR CITY ARBORIST TO DETERMINE IF THE CURBING IN FRONT OF ANY TREE TO REMAIN WILL STAY IN PLACE OR CAN BE REMOVED.
6. PROVIDE MINIMUM 36" BETWEEN BENCHES FOR ADA COMPLIANCE. ENGINEER TO CONFIRM FINAL LOCATIONS.

NOTE:
ALL STRUCTURES WITHIN DISPOSAL SITE BOUNDARY SHALL USE SEWER DRAIN PIPE FOR WATER TIGHT SEAL, OR DUCTILE IRON PIPE WITH RUBBER GASKETS.

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ATLAS

MARK	DATE	DESCRIPTION	BY
0	5/24/24	90% DESIGN SUBMISSION	KW
1	2/17/24	PS&E SUBMISSION	KW
2			

City of Somerville
2024 Street Improvements
Somerville, Massachusetts
Tufts Street General Plan

PROJ: 143-314177-23002
DESN: KW
DRWN: JJ
CHKD: EP

5 OF 19

Contained In Determination Petition
Southeastern Project Extent
City of Somerville
Tufts Street Right of Way Improvments
Somerville, MA

Project Number: 6000007464
Date: 05/08/2025
Drn. By: AGL
Ckd. By: MSG
Scale: AS SHOWN
Figure: 2

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Bar Measures 1 inch, otherwise drawing not to scale

Table 1 - Soil Analytical Data Summary
Tufts Street - Somerville, MA

	MCP Method 1 Standards			ATC-1	ATC-1	ATC-2	ATC-2	ATC-3	ATC-3	ATC-4	ATC-4	ATC-5	ATC-5	ATC-6	ATC-6	ATC-7
Laboratory ID				**620-17450-5**	**620-17450-6**	**620-17450-3**	**620-17450-4**	620-17450-1	620-17450-2	**620-17450-15**	**620-17450-16**	**620-17450-17**	**620-17450-18**	**620-17450-13**	**620-17450-14**	**620-17450-11**
Sample Depth (feet)	**S-1/GW-1**	**S-1/GW-2**	**S-1/GW-3**	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**
Sample Collection Date				3/15/24	3/15/24	3/15/24	3/15/24	3/15/24	3/15/24	3/14/24	3/14/24	3/14/24	3/14/24	3/14/24	3/14/24	3/14/24
units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Headspace PID Reading (ppmv)				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Volatile Organic Compounds (VOCs) by EPA Method 8260C (mg/kg)																
Tetrachloroethene (PCE)	1	4	100	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67
Trichloroethene (TCE)	0.3	0.3	30	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67
cis-1,2-Dichloroethene	0.3	0.1	100	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67
trans-1,2-Dichloroethane	1	1	500	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67
1,2-Dichloroethane (total)	0.1	0.1	30	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67
Vinyl chloride	0.3	0.3	0.3	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67
Chlorobenzene	1	3	100	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67
Methylene Chloride(Dichloromethane)	0.1	3	300	< 0.00938	< 0.0106	<0.0109	< 0.0128	< 0.0197	< 0.0103	< 0.0101	< 0.0105	< 0.0985	< 0.0887	< 0.0104	< 0.0115	< 0.00934
Toluene	30	500	500	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67

Notes:
MCP = Massachusetts Contingency Plan; 310 CMR 40.0000 (3/1/24)
mg/Kg = milligrams per kilogram
Bold indicates detected above laboratory method reporting limit
Green shading indicates above Method 1 S-1 GW-1 Standard
Yellow shading indicates above Method 1 S-1/GW-1 and S-1/GW-2 Standard
NA = Not Analyzed

Table 1 - Soil Analytical Data Summary
Tufts Street - Somerville, MA

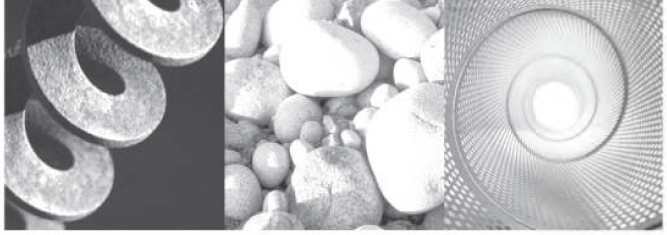
	MCP Method 1 Standards			ATC-7	ATC-8	ATC-8	ATC-1 to ATC-8 Composite	ATC-1 to ATC-8 Composite	50TUFT-B101	50TUFT-B101	50TUFT-B101	50TUFT-B102	50TUFT-B102	50TUFT-B103 (Not included in CID)	50TUFT-B103 (Not included in CID)	50TUFT-B103 (Not included in CID)
Laboratory ID				620-17450-12	620-17450-9	620-17450-10	620-17450-7	620-17450-8	L2408101-01	L2408101-02	L2408101-03	L2408101-04	L2408101-05	L2408101-06	L2408101-07	L2408101-08
Sample Depth (feet)	S-1/GW-1	S-1/GW-2	S-1/GW-3	5-10	0-5	5-10	0-5	5-10	0-1	1-3	3-5	0-1	1-3	0-1	1-3	3-5
Sample Collection Date				3/14/24	3/14/24	3/14/24	3/15/24	3/15/24	2/12/24	2/12/24	2/12/24	2/12/24	2/12/24	2/12/24	2/12/24	2/12/24
units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Headspace PID Reading (ppmv)				0.0	0.0	0.0	NA	NA	0.0	0.0	0.0	0.0	0.1	0.6	21.8	0.1
Volatile Organic Compounds (VOCs) by EPA Method 8260C (mg/kg)																
Tetrachloroethene (PCE)	1	4	100	< 0.0126	< 0.00619	**0.0134**	NA	NA	**0.0023**	<0.00033	**0.015**	**0.00048**	**0.001**	**100**	**2.8**	**0.00052**
Trichloroethene (TCE)	0.3	0.3	30	< 0.0126	< 0.00619	< 0.00494	NA	NA	<0.00037	<0.00033	<0.00026	<0.00032	**0.00037**	**0.24**	<0.031	<0.00032
cis-1,2-Dichloroethene	0.3	0.1	100	< 0.0126	< 0.00619	< 0.00494	NA	NA	<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	**0.094**	<0.061	<0.00063
trans-1,2-Dichloroethane	1	1	500	< 0.0126	< 0.00619	< 0.00494	NA	NA	<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	<0.046	<0.061	<0.00063
1,2-Dichloroethane (total)	0.1	0.1	30	< 0.0126	< 0.00619	< 0.00494	NA	NA	<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	**0.094**	<0.061	<0.00063
Vinyl chloride	0.3	0.3	0.3	< 0.0126	< 0.00619	< 0.00494	NA	NA	<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	<0.046	<0.061	<0.00063
Chlorobenzene	1	3	100	< 0.0126	< 0.00619	< 0.00494	NA	NA	<0.00037	<0.00033	<0.00026	<0.00032	<0.00029	<0.023	<0.031	<0.00032
Methylene Chloride(Dichloromethane)	0.1	3	300	< 0.0253	< 0.0124	< 0.00988	NA	NA	<0.0074	<0.0066	<0.0051	<0.0064	<0.0029	<0.230	<0.310	<0.0063
Toluene	30	500	500	< 0.0126	< 0.00619	< 0.00494	NA	NA	<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	<0.046	<0.061	<0.00063

Notes:
MCP = Massachusetts Contingency Plan; 310 CMR 40.0000 (3/1/24)
mg/Kg = milligrams per kilogram
Bold indicates detected above laboratory method reporting limit
Green shading indicates above Method 1 S-1 GW-1 Standard
Yellow shading indicates above Method 1 S-1/GW-1 and S-1/GW-2 Standard
NA = Not Analyzed

Table 1 - Soil Analytical Data Summary
Tufts Street - Somerville, MA

	MCP Method 1 Standards			50TUFT-B104	50TUFT-B104	50TUFT-B104	50TUFT-B105	50TUFT-B105
Laboratory ID				**L2408101-09**	**L2408101-10**	**L2408101-11**	**L2408101-12**	**L2408101-13**
Sample Depth (feet)	**S-1/GW-1**	**S-1/GW-2**	**S-1/GW-3**	**0-1**	**1-3**	**3-5**	**0-1**	**1-3**
Sample Collection Date				2/12/24	2/12/24	2/12/24	2/12/24	2/12/24
units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Headspace PID Reading (ppmv)				0.1	0.9	0.3	0.0	0.1
Volatile Organic Compounds (VOCs) by EPA Method 8260C (mg/kg)								
Tetrachloroethene (PCE)	1	4	100	**0.023**	**0.015**	**0.0024**	**0.81**	**0.01**
Trichloroethene (TCE)	0.3	0.3	30	<0.00029	<0.00033	<0.00044	<0.022	<0.00061
cis-1,2-Dichloroethene	0.3	0.1	100	<0.00057	<0.00067	<0.00088	<0.044	<0.0012
trans-1,2-Dichloroethane	1	1	500	<0.00057	<0.00067	<0.00088	<0.044	<0.0012
1,2-Dichloroethane (total)	0.1	0.1	30	<0.00057	<0.00067	<0.00088	<0.044	<0.0012
Vinyl chloride	0.3	0.3	0.3	<0.00057	<0.00067	<0.00088	**0.053**	<0.0012
Chlorobenzene	1	3	100	<0.00029	<0.00033	<0.00044	<0.022	<0.00061
Methylene Chloride(Dichloromethane)	0.1	3	300	<0.0057	<0.0067	<0.0088	<0.220	<0.0061
Toluene	30	500	500	<0.00057	<0.00067	<0.00088	**0.053**	<0.0012

Notes:
MCP = Massachusetts Contingency Plan; 310 CMR 40.0000 (3/1/24)
mg/Kg = milligrams per kilogram
Bold indicates detected above laboratory method reporting limit
Green shading indicates above Method 1 S-1 GW-1 Standard
Yellow shading indicates above Method 1 S-1/GW-1 and S-1/GW-2 Standard
NA = Not Analyzed



GEI Consultants

MassDEP RTN 3-23246

Phase V Status Report No. 26 and Remedial Monitoring Report No. 41

50 Tufts Street, Somerville, Massachusetts

Submitted to:
UniFirst Corporation
68 Jonspin Road
Wilmington, MA 01887

Submitted by:
GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801
781.721.4000

August 7, 2024
Project No. 04516-3

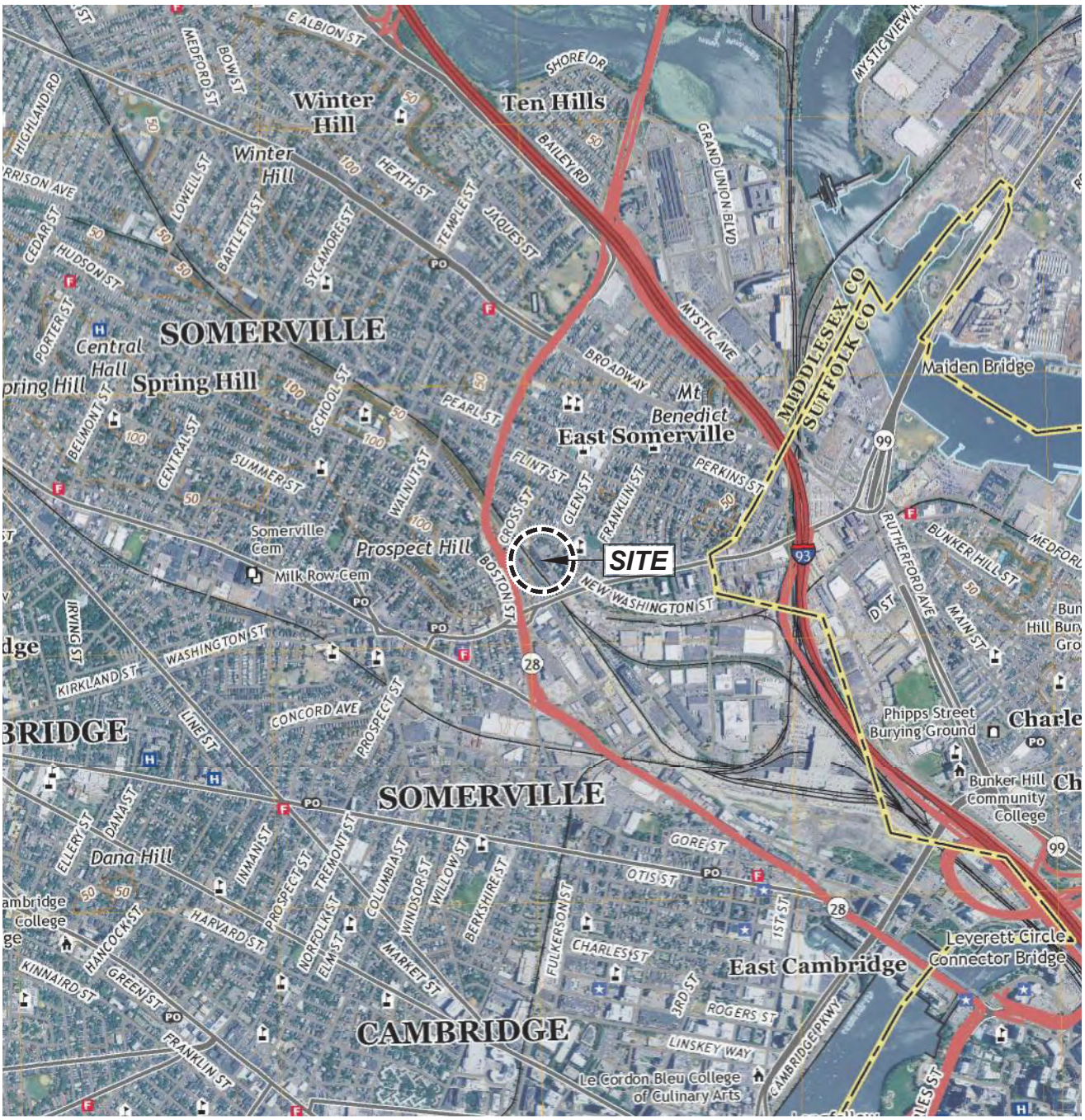
Christopher O. Coner, CHMM
Project Manager

Ileen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President

Table 10-1. Chemical Testing Results - 50 Tufts Street Shallow Soil
Phase V Status Report No. 26 and Remedial Monitoring Report No. 41
50 Tufts Street
Somerville, Massachusetts

			Sample ID:	50TUFT-B101(0-1)	50TUFT-B101(1-3)	50TUFT-B101(3-5)	50TUFT-B102(0-1)	50TUFT-B102(1-3)	50TUFT-B103(0-1)	50TUFT-B103(1-3)	50TUFT-B103(3-5)	50TUFT-B104(0-1)	50TUFT-B104(1-3)	50TUFT-B104(3-5)	50TUFT-B105(0-1)	50TUFT-B105(1-3)
			Sample Date:	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024
			Sample Depth (ft):	0-1	1-3	3-5	0-1	1-3	0-1	1-3	3-5	0-1	1-3	3-5	0-1	1-3
Analyte	**MCP Upper Concentration Limit (UCL)**	**Units**														
Volatile Organics Compounds (VOCs)		mg/kg														
1,2-Dichloroethene, Total			<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	0.094	<0.061	<0.00063	<0.00057	<0.00067	<0.00088	<0.044	<0.0012
cis-1,2-Dichloroethene	5000		<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	0.094	<0.061	<0.00063	<0.00057	<0.00067	<0.00088	<0.044	<0.0012
Tetrachloroethene	10000		0.0023	<0.00033	0.015	0.00048	0.001	100	2.8	0.00052	0.023	0.015	0.0024	0.81	0.01
Toluene	10000		<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	<0.046	<0.061	<0.00063	<0.00057	<0.00067	<0.00088	0.053	<0.0012
Trichloroethene	600		<0.00037	<0.00033	<0.00026	<0.00032	0.00037	0.24	<0.031	<0.00032	<0.00029	<0.00033	<0.00044	<0.022	<0.00061
General Chemistry																
Solids, Total		%	80	89.7	91.1	93.6	91.6	90.1	81.4	85.7	90.8	79.6	82.3	92.1	82.8

Figures



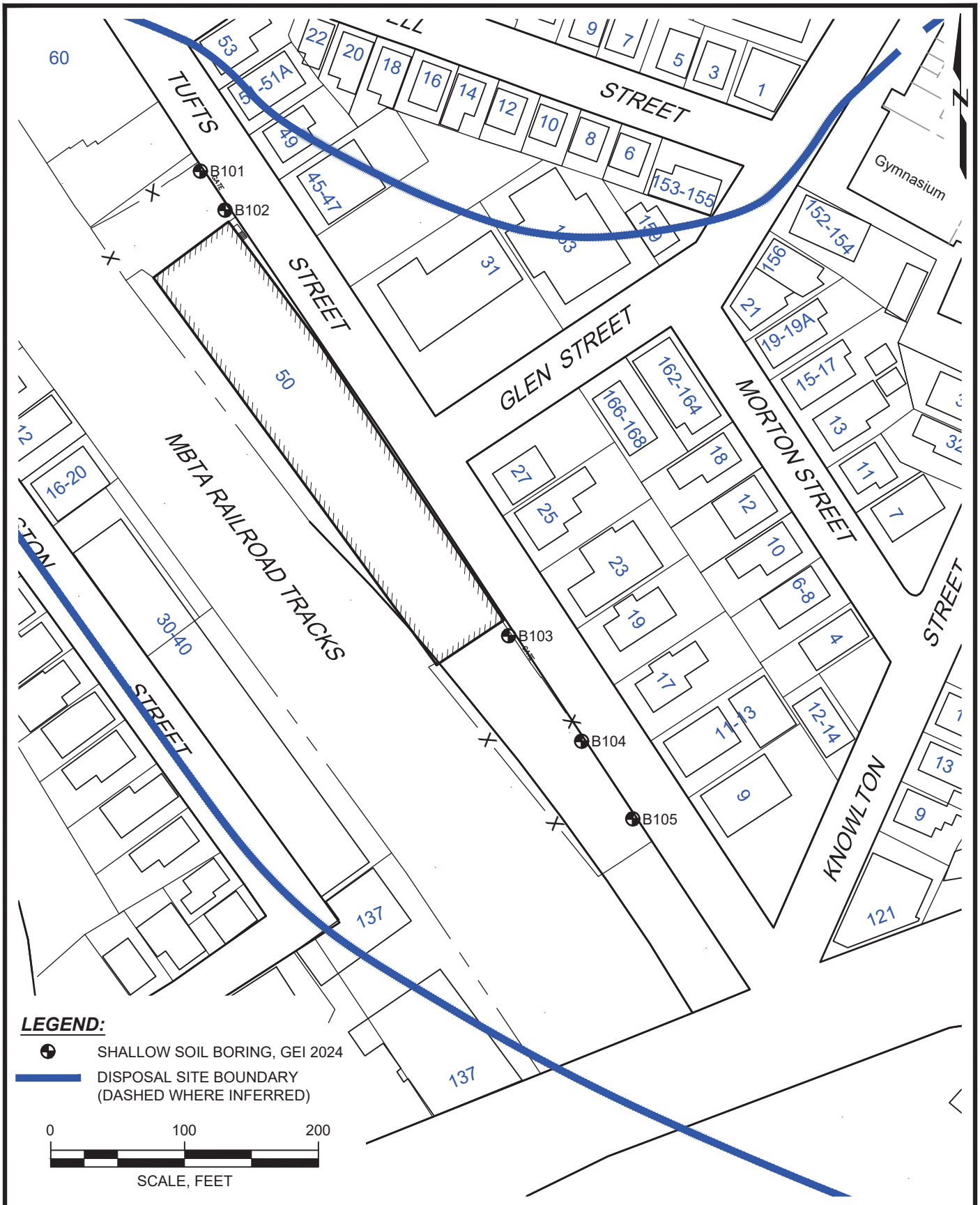
SCALE, FEET

This Image is from U.S.G.S. Topographic 7.5 Minute Series
Boston North, MA Quadrangle, 2018.
Datum is North American Vertical Datum of 1988 (NAVD88).
Contour Interval is 10 Feet.

MASSACHUSETTS
QUADRANGLE LOCATION

Phase V Status Report No. 26 and Remedial Monitoring Report No. 41 50 Tufts Street Somerville, Massachusetts	GEI Consultants	SITE LOCATION MAP
UniFirst Corporation Wilmington, Massachusetts	Project 04516-3	August 2024 Fig. 1

B:\Private\04516\#Drafting\04516-3\Phase V SRs & RMRs\045163 Ph V SR Fig 1-1 slm



Phase V Status Report No. 26 and RMR No. 41 50 Tufts Street Somerville, Massachusetts	GEI Consultants	50 TUFTS STREET SHALLOW SOIL BORING PLAN
Wooden Teeth LLC Wilmington, Massachusetts	Project 045163	August 2024 Fig. 10-1

CLINGEN, PAUL B:\Private\04516\#Drafting\04516-3\Phase V SRs & RMRs\045163 PhV SR SHALLOW BORINGS.dwg - 7/10/2024

ANALYTICAL REPORT

Lab Number:	L2408101
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	TUFTS STREET
Project Number:	045163
Report Date:	02/21/24

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2408101-01	50TUFT-B101(0-1)	SOIL	SOMERVILLE, MA	02/12/24 08:30	02/14/24
L2408101-02	50TUFT-B101(1-3)	SOIL	SOMERVILLE, MA	02/12/24 08:31	02/14/24
L2408101-03	50TUFT-B101(3-5)	SOIL	SOMERVILLE, MA	02/12/24 08:32	02/14/24
L2408101-04	50TUFT-B102(0-1)	SOIL	SOMERVILLE, MA	02/12/24 09:00	02/14/24
L2408101-05	50TUFT-B102(1-3)	SOIL	SOMERVILLE, MA	02/12/24 09:01	02/14/24
L2408101-06	50TUFT-B103(0-1)	SOIL	SOMERVILLE, MA	02/12/24 09:30	02/14/24
L2408101-07	50TUFT-B103(1-3)	SOIL	SOMERVILLE, MA	02/12/24 09:31	02/14/24
L2408101-08	50TUFT-B103(3-5)	SOIL	SOMERVILLE, MA	02/12/24 09:32	02/14/24
L2408101-09	50TUFT-B104(0-1)	SOIL	SOMERVILLE, MA	02/12/24 10:00	02/14/24
L2408101-10	50TUFT-B104(1-3)	SOIL	SOMERVILLE, MA	02/12/24 10:01	02/14/24
L2408101-11	50TUFT-B104(3-5)	SOIL	SOMERVILLE, MA	02/12/24 10:02	02/14/24
L2408101-12	50TUFT-B105(0-1)	SOIL	SOMERVILLE, MA	02/12/24 11:00	02/14/24
L2408101-13	50TUFT-B105(1-3)	SOIL	SOMERVILLE, MA	02/12/24 11:01	02/14/24

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	TUFTS STREET	**Lab Number:**	L2408101
Project Number:	045163	**Report Date:**	02/21/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Case Narrative (continued)

MCP Related Narratives

Volatile Organics

L2408101-06: Initial calibration utilized a quadratic fit for: 1,1-dichloropropene

L2408101-06D: A copy of the continuing calibration standard is included as an addendum to this report.

In reference to question G:

L2408101-06, -07, and -12: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The WG1887347-5 Method Blank, associated with L2408101-06, has a concentration above the reporting limit for chloroform. Since the associated sample concentration is either greater than 10x the blank concentration or non-detect to the RL for this target analyte, no corrective action is required. Any result detected below the reporting limit is qualified with a "B".

L2408101-01, -02, -03, -04, -05, -07, -08, -09, -10, -11, -12, and -13: Initial Calibration did not meet:

Lowest Calibration Standard Minimum Response Factor: bromochloromethane (0.0979), bromodichloromethane (0.2758), 1,4-dioxane (0.0014), cis-1,3-dichloropropene (0.2950), 1,1,2-trichloroethane (0.1932)

Average Response Factor: 1,4-dioxane

Verification: carbon disulfide (69%)

L2408101-06: Initial Calibration did not meet:

Lowest Calibration Standard Minimum Response Factor: 1,4-dioxane (0.0018)

Average Response Factor: 1,4-dioxane

L2408101-01, -02, -03, -04, -05, -06, -07, -08, -09, -10, -11, -12, and -13: The associated continuing calibration standard is outside the acceptance criteria for several compounds; however, it is within overall method allowances. Associated results are considered to be biased high if the %D is negative and biased low if the %D is positive. A copy of the continuing calibration standard is included as an addendum to this report.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly O'Neill

Title: Technical Director/Representative Date: 02/21/24

QC OUTLIER SUMMARY REPORT

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
MCP Volatile Organics by EPA 5035 High - Westborough Lab								
8260D	Batch QC	WG1886042-3	Chloromethane	LCS	67	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-3	1,1-Dichloroethene	LCS	68	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-3	Dichlorodifluoromethane	LCS	62	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-3	Acetone	LCS	64	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-3	Carbon disulfide	LCS	68	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-3	Tetrahydrofuran	LCS	65	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-4	Chloromethane	LCSD	67	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-4	1,1-Dichloroethene	LCSD	68	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-4	Dichlorodifluoromethane	LCSD	62	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-4	Acetone	LCSD	64	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-4	Carbon disulfide	LCSD	68	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-4	Tetrahydrofuran	LCSD	64	70-130	07,12	potential low bias
8260D	Batch QC	WG1887347-3	Chloromethane	LCS	68	70-130	06	potential low bias
8260D	Batch QC	WG1887347-3	Dichlorodifluoromethane	LCS	49	70-130	06	potential low bias
8260D	Batch QC	WG1887347-3	Acetone	LCS	68	70-130	06	potential low bias
8260D	Batch QC	WG1887347-3	Methyl ethyl ketone	LCS	62	70-130	06	potential low bias
8260D	Batch QC	WG1887347-3	Methyl isobutyl ketone	LCS	69	70-130	06	potential low bias
8260D	Batch QC	WG1887347-3	2-Hexanone	LCS	64	70-130	06	potential low bias
8260D	Batch QC	WG1887347-3	Tetrahydrofuran	LCS	58	70-130	06	potential low bias
8260D	Batch QC	WG1887347-4	Chloromethane	LCSD	64	70-130	06	potential low bias
8260D	Batch QC	WG1887347-4	Dichlorodifluoromethane	LCSD	46	70-130	06	potential low bias
8260D	Batch QC	WG1887347-4	Acetone	LCSD	67	70-130	06	potential low bias
8260D	Batch QC	WG1887347-4	Methyl ethyl ketone	LCSD	65	70-130	06	potential low bias
8260D	Batch QC	WG1887347-4	2-Hexanone	LCSD	65	70-130	06	potential low bias
8260D	Batch QC	WG1887347-4	Tetrahydrofuran	LCSD	63	70-130	06	potential low bias
8260D	Batch QC	WG1887734-3	Chloromethane	LCS	66	70-130	06	potential low bias
8260D	Batch QC	WG1887734-3	Dichlorodifluoromethane	LCS	41	70-130	06	potential low bias
8260D	Batch QC	WG1887734-3	Methyl ethyl ketone	LCS	68	70-130	06	potential low bias
8260D	Batch QC	WG1887734-3	2-Hexanone	LCS	69	70-130	06	potential low bias

QC OUTLIER SUMMARY REPORT

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
8260D	Batch QC	WG1887734-3	Tetrahydrofuran	LCS	64	70-130	06	potential low bias
8260D	Batch QC	WG1887734-4	Chloromethane	LCSD	65	70-130	06	potential low bias
8260D	Batch QC	WG1887734-4	Dichlorodifluoromethane	LCSD	41	70-130	06	potential low bias
8260D	Batch QC	WG1887734-4	Acetone	LCSD	69	70-130	06	potential low bias
8260D	Batch QC	WG1887734-4	Tetrahydrofuran	LCSD	64	70-130	06	potential low bias
MCP Volatile Organics by EPA 5035 Low - Westborough Lab								
8260D	Batch QC	WG1886062-3	Chloromethane	LCS	67	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-3	1,1-Dichloroethene	LCS	68	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-3	Dichlorodifluoromethane	LCS	62	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-3	Acetone	LCS	64	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-3	Carbon disulfide	LCS	68	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-3	Tetrahydrofuran	LCS	65	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-4	Chloromethane	LCSD	67	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-4	1,1-Dichloroethene	LCSD	68	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-4	Dichlorodifluoromethane	LCSD	62	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-4	Acetone	LCSD	64	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-4	Carbon disulfide	LCSD	68	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-4	Tetrahydrofuran	LCSD	64	70-130	01-05,08-11,13	potential low bias

ORGANICS

VOLATILES

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-01
Client ID: 50TUFT-B101(0-1)
Sample Location: SOMERVILLE, MA

Date Collected: 02/12/24 08:30
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 15:23
Analyst: MAG
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.7	--	1
1,1-Dichloroethane	ND		ug/kg	0.74	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.74	--	1
1,2-Dichloropropane	ND		ug/kg	0.74	--	1
Dibromochloromethane	ND		ug/kg	0.74	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.74	--	1
Tetrachloroethene	2.3		ug/kg	0.37	--	1
Chlorobenzene	ND		ug/kg	0.37	--	1
Trichlorofluoromethane	ND		ug/kg	2.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.74	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.37	--	1
Bromodichloromethane	ND		ug/kg	0.37	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.74	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.37	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.37	--	1
1,1-Dichloropropene	ND		ug/kg	0.37	--	1
Bromoform	ND		ug/kg	2.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.37	--	1
Benzene	ND		ug/kg	0.37	--	1
Toluene	ND		ug/kg	0.74	--	1
Ethylbenzene	ND		ug/kg	0.74	--	1
Chloromethane	ND		ug/kg	2.9	--	1
Bromomethane	ND		ug/kg	1.5	--	1
Vinyl chloride	ND		ug/kg	0.74	--	1
Chloroethane	ND		ug/kg	1.5	--	1
1,1-Dichloroethene	ND		ug/kg	0.74	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-01
Client ID: 50TUFT-B101(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 08:30
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.37	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.5	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.5	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.5	--	1
Methyl tert butyl ether	ND		ug/kg	1.5	--	1
p/m-Xylene	ND		ug/kg	1.5	--	1
o-Xylene	ND		ug/kg	0.74	--	1
Xylenes, Total	ND		ug/kg	0.74	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.74	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.74	--	1
Dibromomethane	ND		ug/kg	1.5	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.5	--	1
Styrene	ND		ug/kg	0.74	--	1
Dichlorodifluoromethane	ND		ug/kg	7.4	--	1
Acetone	ND		ug/kg	18	--	1
Carbon disulfide	ND		ug/kg	7.4	--	1
Methyl ethyl ketone	ND		ug/kg	7.4	--	1
Methyl isobutyl ketone	ND		ug/kg	7.4	--	1
2-Hexanone	ND		ug/kg	7.4	--	1
Bromochloromethane	ND		ug/kg	1.5	--	1
Tetrahydrofuran	ND		ug/kg	2.9	--	1
2,2-Dichloropropane	ND		ug/kg	1.5	--	1
1,2-Dibromoethane	ND		ug/kg	0.74	--	1
1,3-Dichloropropane	ND		ug/kg	1.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.37	--	1
Bromobenzene	ND		ug/kg	1.5	--	1
n-Butylbenzene	ND		ug/kg	0.74	--	1
sec-Butylbenzene	ND		ug/kg	0.74	--	1
tert-Butylbenzene	ND		ug/kg	1.5	--	1
o-Chlorotoluene	ND		ug/kg	1.5	--	1
p-Chlorotoluene	ND		ug/kg	1.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.2	--	1
Hexachlorobutadiene	ND		ug/kg	2.9	--	1
Isopropylbenzene	ND		ug/kg	0.74	--	1
p-Isopropyltoluene	ND		ug/kg	0.74	--	1
Naphthalene	ND		ug/kg	2.9	--	1
n-Propylbenzene	ND		ug/kg	0.74	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-01
Client ID: 50TUFT-B101(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 08:30
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.5	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.5	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.5	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.5	--	1
Diethyl ether	ND		ug/kg	1.5	--	1
Diisopropyl Ether	ND		ug/kg	1.5	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.5	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.5	--	1
1,4-Dioxane	ND		ug/kg	59	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	95		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-02
Client ID: 50TUFT-B101(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 08:31
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 15:54
Analyst: MAG
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.3	--	1
1,1-Dichloroethane	ND		ug/kg	0.66	--	1
Chloroform	ND		ug/kg	0.99	--	1
Carbon tetrachloride	ND		ug/kg	0.66	--	1
1,2-Dichloropropane	ND		ug/kg	0.66	--	1
Dibromochloromethane	ND		ug/kg	0.66	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.66	--	1
Tetrachloroethene	ND		ug/kg	0.33	--	1
Chlorobenzene	ND		ug/kg	0.33	--	1
Trichlorofluoromethane	ND		ug/kg	2.6	--	1
1,2-Dichloroethane	ND		ug/kg	0.66	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.33	--	1
Bromodichloromethane	ND		ug/kg	0.33	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.66	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.33	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.33	--	1
1,1-Dichloropropene	ND		ug/kg	0.33	--	1
Bromoform	ND		ug/kg	2.6	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.33	--	1
Benzene	ND		ug/kg	0.33	--	1
Toluene	ND		ug/kg	0.66	--	1
Ethylbenzene	ND		ug/kg	0.66	--	1
Chloromethane	ND		ug/kg	2.6	--	1
Bromomethane	ND		ug/kg	1.3	--	1
Vinyl chloride	ND		ug/kg	0.66	--	1
Chloroethane	ND		ug/kg	1.3	--	1
1,1-Dichloroethene	ND		ug/kg	0.66	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.99	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-02
Client ID: 50TUFT-B101(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 08:31
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.33	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.3	--	1
Methyl tert butyl ether	ND		ug/kg	1.3	--	1
p/m-Xylene	ND		ug/kg	1.3	--	1
o-Xylene	ND		ug/kg	0.66	--	1
Xylenes, Total	ND		ug/kg	0.66	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.66	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.66	--	1
Dibromomethane	ND		ug/kg	1.3	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.3	--	1
Styrene	ND		ug/kg	0.66	--	1
Dichlorodifluoromethane	ND		ug/kg	6.6	--	1
Acetone	ND		ug/kg	16	--	1
Carbon disulfide	ND		ug/kg	6.6	--	1
Methyl ethyl ketone	ND		ug/kg	6.6	--	1
Methyl isobutyl ketone	ND		ug/kg	6.6	--	1
2-Hexanone	ND		ug/kg	6.6	--	1
Bromochloromethane	ND		ug/kg	1.3	--	1
Tetrahydrofuran	ND		ug/kg	2.6	--	1
2,2-Dichloropropane	ND		ug/kg	1.3	--	1
1,2-Dibromoethane	ND		ug/kg	0.66	--	1
1,3-Dichloropropane	ND		ug/kg	1.3	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.33	--	1
Bromobenzene	ND		ug/kg	1.3	--	1
n-Butylbenzene	ND		ug/kg	0.66	--	1
sec-Butylbenzene	ND		ug/kg	0.66	--	1
tert-Butylbenzene	ND		ug/kg	1.3	--	1
o-Chlorotoluene	ND		ug/kg	1.3	--	1
p-Chlorotoluene	ND		ug/kg	1.3	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.0	--	1
Hexachlorobutadiene	ND		ug/kg	2.6	--	1
Isopropylbenzene	ND		ug/kg	0.66	--	1
p-Isopropyltoluene	ND		ug/kg	0.66	--	1
Naphthalene	ND		ug/kg	2.6	--	1
n-Propylbenzene	ND		ug/kg	0.66	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-02
Client ID: 50TUFT-B101(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 08:31
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.3	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.3	--	1
Diethyl ether	ND		ug/kg	1.3	--	1
Diisopropyl Ether	ND		ug/kg	1.3	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.3	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.3	--	1
1,4-Dioxane	ND		ug/kg	53	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	94		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-03
Client ID: 50TUFT-B101(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 08:32
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 16:24
Analyst: MAG
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	2.6	--	1
1,1-Dichloroethane	ND		ug/kg	0.51	--	1
Chloroform	ND		ug/kg	0.77	--	1
Carbon tetrachloride	ND		ug/kg	0.51	--	1
1,2-Dichloropropane	ND		ug/kg	0.51	--	1
Dibromochloromethane	ND		ug/kg	0.51	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.51	--	1
Tetrachloroethene	15		ug/kg	0.26	--	1
Chlorobenzene	ND		ug/kg	0.26	--	1
Trichlorofluoromethane	ND		ug/kg	2.0	--	1
1,2-Dichloroethane	ND		ug/kg	0.51	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.26	--	1
Bromodichloromethane	ND		ug/kg	0.26	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.51	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.26	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.26	--	1
1,1-Dichloropropene	ND		ug/kg	0.26	--	1
Bromoform	ND		ug/kg	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.26	--	1
Benzene	ND		ug/kg	0.26	--	1
Toluene	ND		ug/kg	0.51	--	1
Ethylbenzene	ND		ug/kg	0.51	--	1
Chloromethane	ND		ug/kg	2.0	--	1
Bromomethane	ND		ug/kg	1.0	--	1
Vinyl chloride	ND		ug/kg	0.51	--	1
Chloroethane	ND		ug/kg	1.0	--	1
1,1-Dichloroethene	ND		ug/kg	0.51	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.77	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-03
Client ID: 50TUFT-B101(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 08:32
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.26	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.0	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.0	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.0	--	1
Methyl tert butyl ether	ND		ug/kg	1.0	--	1
p/m-Xylene	ND		ug/kg	1.0	--	1
o-Xylene	ND		ug/kg	0.51	--	1
Xylenes, Total	ND		ug/kg	0.51	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.51	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.51	--	1
Dibromomethane	ND		ug/kg	1.0	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.0	--	1
Styrene	ND		ug/kg	0.51	--	1
Dichlorodifluoromethane	ND		ug/kg	5.1	--	1
Acetone	ND		ug/kg	13	--	1
Carbon disulfide	ND		ug/kg	5.1	--	1
Methyl ethyl ketone	ND		ug/kg	5.1	--	1
Methyl isobutyl ketone	ND		ug/kg	5.1	--	1
2-Hexanone	ND		ug/kg	5.1	--	1
Bromochloromethane	ND		ug/kg	1.0	--	1
Tetrahydrofuran	ND		ug/kg	2.0	--	1
2,2-Dichloropropane	ND		ug/kg	1.0	--	1
1,2-Dibromoethane	ND		ug/kg	0.51	--	1
1,3-Dichloropropane	ND		ug/kg	1.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.26	--	1
Bromobenzene	ND		ug/kg	1.0	--	1
n-Butylbenzene	ND		ug/kg	0.51	--	1
sec-Butylbenzene	ND		ug/kg	0.51	--	1
tert-Butylbenzene	ND		ug/kg	1.0	--	1
o-Chlorotoluene	ND		ug/kg	1.0	--	1
p-Chlorotoluene	ND		ug/kg	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.5	--	1
Hexachlorobutadiene	ND		ug/kg	2.0	--	1
Isopropylbenzene	ND		ug/kg	0.51	--	1
p-Isopropyltoluene	ND		ug/kg	0.51	--	1
Naphthalene	ND		ug/kg	2.0	--	1
n-Propylbenzene	ND		ug/kg	0.51	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-03
Client ID: 50TUFT-B101(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 08:32
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.0	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.0	--	1
Diethyl ether	ND		ug/kg	1.0	--	1
Diisopropyl Ether	ND		ug/kg	1.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.0	--	1
1,4-Dioxane	ND		ug/kg	41	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	93		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-04
Client ID: 50TUFT-B102(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 16:54
Analyst: MAG
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.2	--	1
1,1-Dichloroethane	ND		ug/kg	0.64	--	1
Chloroform	ND		ug/kg	0.95	--	1
Carbon tetrachloride	ND		ug/kg	0.64	--	1
1,2-Dichloropropane	ND		ug/kg	0.64	--	1
Dibromochloromethane	ND		ug/kg	0.64	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.64	--	1
Tetrachloroethene	0.48		ug/kg	0.32	--	1
Chlorobenzene	ND		ug/kg	0.32	--	1
Trichlorofluoromethane	ND		ug/kg	2.5	--	1
1,2-Dichloroethane	ND		ug/kg	0.64	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.32	--	1
Bromodichloromethane	ND		ug/kg	0.32	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.64	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.32	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.32	--	1
1,1-Dichloropropene	ND		ug/kg	0.32	--	1
Bromoform	ND		ug/kg	2.5	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.32	--	1
Benzene	ND		ug/kg	0.32	--	1
Toluene	ND		ug/kg	0.64	--	1
Ethylbenzene	ND		ug/kg	0.64	--	1
Chloromethane	ND		ug/kg	2.5	--	1
Bromomethane	ND		ug/kg	1.3	--	1
Vinyl chloride	ND		ug/kg	0.64	--	1
Chloroethane	ND		ug/kg	1.3	--	1
1,1-Dichloroethene	ND		ug/kg	0.64	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.95	--	1

Project Name: TUFTS STREET **Lab Number:** L2408101

Project Number: 045163 **Report Date:** 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-04 Date Collected: 02/12/24 09:00

Client ID: 50TUFT-B102(0-1) Date Received: 02/14/24

Sample Location: SOMERVILLE, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.32	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.3	--	1
Methyl tert butyl ether	ND		ug/kg	1.3	--	1
p/m-Xylene	ND		ug/kg	1.3	--	1
o-Xylene	ND		ug/kg	0.64	--	1
Xylenes, Total	ND		ug/kg	0.64	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.64	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.64	--	1
Dibromomethane	ND		ug/kg	1.3	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.3	--	1
Styrene	ND		ug/kg	0.64	--	1
Dichlorodifluoromethane	ND		ug/kg	6.4	--	1
Acetone	ND		ug/kg	16	--	1
Carbon disulfide	ND		ug/kg	6.4	--	1
Methyl ethyl ketone	ND		ug/kg	6.4	--	1
Methyl isobutyl ketone	ND		ug/kg	6.4	--	1
2-Hexanone	ND		ug/kg	6.4	--	1
Bromochloromethane	ND		ug/kg	1.3	--	1
Tetrahydrofuran	ND		ug/kg	2.5	--	1
2,2-Dichloropropane	ND		ug/kg	1.3	--	1
1,2-Dibromoethane	ND		ug/kg	0.64	--	1
1,3-Dichloropropane	ND		ug/kg	1.3	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.32	--	1
Bromobenzene	ND		ug/kg	1.3	--	1
n-Butylbenzene	ND		ug/kg	0.64	--	1
sec-Butylbenzene	ND		ug/kg	0.64	--	1
tert-Butylbenzene	ND		ug/kg	1.3	--	1
o-Chlorotoluene	ND		ug/kg	1.3	--	1
p-Chlorotoluene	ND		ug/kg	1.3	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.9	--	1
Hexachlorobutadiene	ND		ug/kg	2.5	--	1
Isopropylbenzene	ND		ug/kg	0.64	--	1
p-Isopropyltoluene	ND		ug/kg	0.64	--	1
Naphthalene	ND		ug/kg	2.5	--	1
n-Propylbenzene	ND		ug/kg	0.64	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-04
Client ID: 50TUFT-B102(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.3	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.3	--	1
Diethyl ether	ND		ug/kg	1.3	--	1
Diisopropyl Ether	ND		ug/kg	1.3	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.3	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.3	--	1
1,4-Dioxane	ND		ug/kg	51	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	93		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-05
Client ID: 50TUFT-B102(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 17:25
Analyst: MAG
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	2.9	--	1
1,1-Dichloroethane	ND		ug/kg	0.58	--	1
Chloroform	ND		ug/kg	0.88	--	1
Carbon tetrachloride	ND		ug/kg	0.58	--	1
1,2-Dichloropropane	ND		ug/kg	0.58	--	1
Dibromochloromethane	ND		ug/kg	0.58	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.58	--	1
Tetrachloroethene	1.0		ug/kg	0.29	--	1
Chlorobenzene	ND		ug/kg	0.29	--	1
Trichlorofluoromethane	ND		ug/kg	2.3	--	1
1,2-Dichloroethane	ND		ug/kg	0.58	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.29	--	1
Bromodichloromethane	ND		ug/kg	0.29	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.58	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.29	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.29	--	1
1,1-Dichloropropene	ND		ug/kg	0.29	--	1
Bromoform	ND		ug/kg	2.3	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.29	--	1
Benzene	ND		ug/kg	0.29	--	1
Toluene	ND		ug/kg	0.58	--	1
Ethylbenzene	ND		ug/kg	0.58	--	1
Chloromethane	ND		ug/kg	2.3	--	1
Bromomethane	ND		ug/kg	1.2	--	1
Vinyl chloride	ND		ug/kg	0.58	--	1
Chloroethane	ND		ug/kg	1.2	--	1
1,1-Dichloroethene	ND		ug/kg	0.58	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.88	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-05
Client ID: 50TUFT-B102(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.37		ug/kg	0.29	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.2	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.2	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.2	--	1
Methyl tert butyl ether	ND		ug/kg	1.2	--	1
p/m-Xylene	ND		ug/kg	1.2	--	1
o-Xylene	ND		ug/kg	0.58	--	1
Xylenes, Total	ND		ug/kg	0.58	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.58	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.58	--	1
Dibromomethane	ND		ug/kg	1.2	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.2	--	1
Styrene	ND		ug/kg	0.58	--	1
Dichlorodifluoromethane	ND		ug/kg	5.8	--	1
Acetone	ND		ug/kg	14	--	1
Carbon disulfide	ND		ug/kg	5.8	--	1
Methyl ethyl ketone	ND		ug/kg	5.8	--	1
Methyl isobutyl ketone	ND		ug/kg	5.8	--	1
2-Hexanone	ND		ug/kg	5.8	--	1
Bromochloromethane	ND		ug/kg	1.2	--	1
Tetrahydrofuran	ND		ug/kg	2.3	--	1
2,2-Dichloropropane	ND		ug/kg	1.2	--	1
1,2-Dibromoethane	ND		ug/kg	0.58	--	1
1,3-Dichloropropane	ND		ug/kg	1.2	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.29	--	1
Bromobenzene	ND		ug/kg	1.2	--	1
n-Butylbenzene	ND		ug/kg	0.58	--	1
sec-Butylbenzene	ND		ug/kg	0.58	--	1
tert-Butylbenzene	ND		ug/kg	1.2	--	1
o-Chlorotoluene	ND		ug/kg	1.2	--	1
p-Chlorotoluene	ND		ug/kg	1.2	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.8	--	1
Hexachlorobutadiene	ND		ug/kg	2.3	--	1
Isopropylbenzene	ND		ug/kg	0.58	--	1
p-Isopropyltoluene	ND		ug/kg	0.58	--	1
Naphthalene	ND		ug/kg	2.3	--	1
n-Propylbenzene	ND		ug/kg	0.58	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-05
Client ID: 50TUFT-B102(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.2	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.2	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.2	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.2	--	1
Diethyl ether	ND		ug/kg	1.2	--	1
Diisopropyl Ether	ND		ug/kg	1.2	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.2	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.2	--	1
1,4-Dioxane	ND		ug/kg	47	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	93		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-06
Client ID: 50TUFT-B103(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:30
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/20/24 14:19
Analyst: MAG
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	230	--	1
1,1-Dichloroethane	ND		ug/kg	46	--	1
Chloroform	ND		ug/kg	68	--	1
Carbon tetrachloride	ND		ug/kg	46	--	1
1,2-Dichloropropane	ND		ug/kg	46	--	1
Dibromochloromethane	ND		ug/kg	46	--	1
1,1,2-Trichloroethane	ND		ug/kg	46	--	1
Tetrachloroethene	92000	E	ug/kg	23	--	1
Chlorobenzene	ND		ug/kg	23	--	1
Trichlorofluoromethane	ND		ug/kg	180	--	1
1,2-Dichloroethane	ND		ug/kg	46	--	1
1,1,1-Trichloroethane	ND		ug/kg	23	--	1
Bromodichloromethane	ND		ug/kg	23	--	1
trans-1,3-Dichloropropene	ND		ug/kg	46	--	1
cis-1,3-Dichloropropene	ND		ug/kg	23	--	1
1,3-Dichloropropene, Total	ND		ug/kg	23	--	1
1,1-Dichloropropene	ND		ug/kg	23	--	1
Bromoform	ND		ug/kg	180	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	23	--	1
Benzene	ND		ug/kg	23	--	1
Toluene	ND		ug/kg	46	--	1
Ethylbenzene	ND		ug/kg	46	--	1
Chloromethane	ND		ug/kg	180	--	1
Bromomethane	ND		ug/kg	91	--	1
Vinyl chloride	ND		ug/kg	46	--	1
Chloroethane	ND		ug/kg	91	--	1
1,1-Dichloroethene	ND		ug/kg	46	--	1
trans-1,2-Dichloroethene	ND		ug/kg	68	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-06
Client ID: 50TUFT-B103(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:30
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	240		ug/kg	23	--	1
1,2-Dichlorobenzene	ND		ug/kg	91	--	1
1,3-Dichlorobenzene	ND		ug/kg	91	--	1
1,4-Dichlorobenzene	ND		ug/kg	91	--	1
Methyl tert butyl ether	ND		ug/kg	91	--	1
p/m-Xylene	ND		ug/kg	91	--	1
o-Xylene	ND		ug/kg	46	--	1
Xylenes, Total	ND		ug/kg	46	--	1
cis-1,2-Dichloroethene	94		ug/kg	46	--	1
1,2-Dichloroethene, Total	94		ug/kg	46	--	1
Dibromomethane	ND		ug/kg	91	--	1
1,2,3-Trichloropropane	ND		ug/kg	91	--	1
Styrene	ND		ug/kg	46	--	1
Dichlorodifluoromethane	ND		ug/kg	460	--	1
Acetone	ND		ug/kg	460	--	1
Carbon disulfide	ND		ug/kg	460	--	1
Methyl ethyl ketone	ND		ug/kg	460	--	1
Methyl isobutyl ketone	ND		ug/kg	460	--	1
2-Hexanone	ND		ug/kg	460	--	1
Bromochloromethane	ND		ug/kg	91	--	1
Tetrahydrofuran	ND		ug/kg	180	--	1
2,2-Dichloropropane	ND		ug/kg	91	--	1
1,2-Dibromoethane	ND		ug/kg	46	--	1
1,3-Dichloropropane	ND		ug/kg	91	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	23	--	1
Bromobenzene	ND		ug/kg	91	--	1
n-Butylbenzene	ND		ug/kg	46	--	1
sec-Butylbenzene	ND		ug/kg	46	--	1
tert-Butylbenzene	ND		ug/kg	91	--	1
o-Chlorotoluene	ND		ug/kg	91	--	1
p-Chlorotoluene	ND		ug/kg	91	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	140	--	1
Hexachlorobutadiene	ND		ug/kg	180	--	1
Isopropylbenzene	ND		ug/kg	46	--	1
p-Isopropyltoluene	ND		ug/kg	46	--	1
Naphthalene	ND		ug/kg	180	--	1
n-Propylbenzene	ND		ug/kg	46	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-06
Client ID: 50TUFT-B103(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:30
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	91	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	91	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	91	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	91	--	1
Diethyl ether	ND		ug/kg	91	--	1
Diisopropyl Ether	ND		ug/kg	91	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	91	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	91	--	1
1,4-Dioxane	ND		ug/kg	3600	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	91		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-06 D
Client ID: 50TUFT-B103(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:30
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/21/24 12:25
Analyst: AJK
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Tetrachloroethene	100000		ug/kg	230	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	95		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-07
Client ID: 50TUFT-B103(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:31
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 20:26
Analyst: MAG
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	310	--	1
1,1-Dichloroethane	ND		ug/kg	61	--	1
Chloroform	ND		ug/kg	92	--	1
Carbon tetrachloride	ND		ug/kg	61	--	1
1,2-Dichloropropane	ND		ug/kg	61	--	1
Dibromochloromethane	ND		ug/kg	61	--	1
1,1,2-Trichloroethane	ND		ug/kg	61	--	1
Tetrachloroethene	2800		ug/kg	31	--	1
Chlorobenzene	ND		ug/kg	31	--	1
Trichlorofluoromethane	ND		ug/kg	240	--	1
1,2-Dichloroethane	ND		ug/kg	61	--	1
1,1,1-Trichloroethane	ND		ug/kg	31	--	1
Bromodichloromethane	ND		ug/kg	31	--	1
trans-1,3-Dichloropropene	ND		ug/kg	61	--	1
cis-1,3-Dichloropropene	ND		ug/kg	31	--	1
1,3-Dichloropropene, Total	ND		ug/kg	31	--	1
1,1-Dichloropropene	ND		ug/kg	31	--	1
Bromoform	ND		ug/kg	240	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	31	--	1
Benzene	ND		ug/kg	31	--	1
Toluene	ND		ug/kg	61	--	1
Ethylbenzene	ND		ug/kg	61	--	1
Chloromethane	ND		ug/kg	240	--	1
Bromomethane	ND		ug/kg	120	--	1
Vinyl chloride	ND		ug/kg	61	--	1
Chloroethane	ND		ug/kg	120	--	1
1,1-Dichloroethene	ND		ug/kg	61	--	1
trans-1,2-Dichloroethene	ND		ug/kg	92	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-07
Client ID: 50TUFT-B103(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:31
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	31	--	1
1,2-Dichlorobenzene	ND		ug/kg	120	--	1
1,3-Dichlorobenzene	ND		ug/kg	120	--	1
1,4-Dichlorobenzene	ND		ug/kg	120	--	1
Methyl tert butyl ether	ND		ug/kg	120	--	1
p/m-Xylene	ND		ug/kg	120	--	1
o-Xylene	ND		ug/kg	61	--	1
Xylenes, Total	ND		ug/kg	61	--	1
cis-1,2-Dichloroethene	ND		ug/kg	61	--	1
1,2-Dichloroethene, Total	ND		ug/kg	61	--	1
Dibromomethane	ND		ug/kg	120	--	1
1,2,3-Trichloropropane	ND		ug/kg	120	--	1
Styrene	ND		ug/kg	61	--	1
Dichlorodifluoromethane	ND		ug/kg	610	--	1
Acetone	ND		ug/kg	610	--	1
Carbon disulfide	ND		ug/kg	610	--	1
Methyl ethyl ketone	ND		ug/kg	610	--	1
Methyl isobutyl ketone	ND		ug/kg	610	--	1
2-Hexanone	ND		ug/kg	610	--	1
Bromochloromethane	ND		ug/kg	120	--	1
Tetrahydrofuran	ND		ug/kg	240	--	1
2,2-Dichloropropane	ND		ug/kg	120	--	1
1,2-Dibromoethane	ND		ug/kg	61	--	1
1,3-Dichloropropane	ND		ug/kg	120	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	31	--	1
Bromobenzene	ND		ug/kg	120	--	1
n-Butylbenzene	ND		ug/kg	61	--	1
sec-Butylbenzene	ND		ug/kg	61	--	1
tert-Butylbenzene	ND		ug/kg	120	--	1
o-Chlorotoluene	ND		ug/kg	120	--	1
p-Chlorotoluene	ND		ug/kg	120	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	180	--	1
Hexachlorobutadiene	ND		ug/kg	240	--	1
Isopropylbenzene	ND		ug/kg	61	--	1
p-Isopropyltoluene	ND		ug/kg	61	--	1
Naphthalene	ND		ug/kg	240	--	1
n-Propylbenzene	ND		ug/kg	61	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-07
Client ID: 50TUFT-B103(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:31
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	120	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	120	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	120	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	120	--	1
Diethyl ether	ND		ug/kg	120	--	1
Diisopropyl Ether	ND		ug/kg	120	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	120	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	120	--	1
1,4-Dioxane	ND		ug/kg	4900	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	94		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-08
Client ID: 50TUFT-B103(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:32
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 17:55
Analyst: MAG
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.2	--	1
1,1-Dichloroethane	ND		ug/kg	0.63	--	1
Chloroform	ND		ug/kg	0.95	--	1
Carbon tetrachloride	ND		ug/kg	0.63	--	1
1,2-Dichloropropane	ND		ug/kg	0.63	--	1
Dibromochloromethane	ND		ug/kg	0.63	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.63	--	1
Tetrachloroethene	0.52		ug/kg	0.32	--	1
Chlorobenzene	ND		ug/kg	0.32	--	1
Trichlorofluoromethane	ND		ug/kg	2.5	--	1
1,2-Dichloroethane	ND		ug/kg	0.63	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.32	--	1
Bromodichloromethane	ND		ug/kg	0.32	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.63	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.32	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.32	--	1
1,1-Dichloropropene	ND		ug/kg	0.32	--	1
Bromoform	ND		ug/kg	2.5	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.32	--	1
Benzene	ND		ug/kg	0.32	--	1
Toluene	ND		ug/kg	0.63	--	1
Ethylbenzene	ND		ug/kg	0.63	--	1
Chloromethane	ND		ug/kg	2.5	--	1
Bromomethane	ND		ug/kg	1.3	--	1
Vinyl chloride	ND		ug/kg	0.63	--	1
Chloroethane	ND		ug/kg	1.3	--	1
1,1-Dichloroethene	ND		ug/kg	0.63	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.95	--	1

Project Name: TUFTS STREET **Lab Number:** L2408101

Project Number: 045163 **Report Date:** 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-08 Date Collected: 02/12/24 09:32

Client ID: 50TUFT-B103(3-5) Date Received: 02/14/24

Sample Location: SOMERVILLE, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.32	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.3	--	1
Methyl tert butyl ether	ND		ug/kg	1.3	--	1
p/m-Xylene	ND		ug/kg	1.3	--	1
o-Xylene	ND		ug/kg	0.63	--	1
Xylenes, Total	ND		ug/kg	0.63	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.63	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.63	--	1
Dibromomethane	ND		ug/kg	1.3	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.3	--	1
Styrene	ND		ug/kg	0.63	--	1
Dichlorodifluoromethane	ND		ug/kg	6.3	--	1
Acetone	ND		ug/kg	16	--	1
Carbon disulfide	ND		ug/kg	6.3	--	1
Methyl ethyl ketone	ND		ug/kg	6.3	--	1
Methyl isobutyl ketone	ND		ug/kg	6.3	--	1
2-Hexanone	ND		ug/kg	6.3	--	1
Bromochloromethane	ND		ug/kg	1.3	--	1
Tetrahydrofuran	ND		ug/kg	2.5	--	1
2,2-Dichloropropane	ND		ug/kg	1.3	--	1
1,2-Dibromoethane	ND		ug/kg	0.63	--	1
1,3-Dichloropropane	ND		ug/kg	1.3	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.32	--	1
Bromobenzene	ND		ug/kg	1.3	--	1
n-Butylbenzene	ND		ug/kg	0.63	--	1
sec-Butylbenzene	ND		ug/kg	0.63	--	1
tert-Butylbenzene	ND		ug/kg	1.3	--	1
o-Chlorotoluene	ND		ug/kg	1.3	--	1
p-Chlorotoluene	ND		ug/kg	1.3	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.9	--	1
Hexachlorobutadiene	ND		ug/kg	2.5	--	1
Isopropylbenzene	ND		ug/kg	0.63	--	1
p-Isopropyltoluene	ND		ug/kg	0.63	--	1
Naphthalene	ND		ug/kg	2.5	--	1
n-Propylbenzene	ND		ug/kg	0.63	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-08
Client ID: 50TUFT-B103(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:32
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.3	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.3	--	1
Diethyl ether	ND		ug/kg	1.3	--	1
Diisopropyl Ether	ND		ug/kg	1.3	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.3	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.3	--	1
1,4-Dioxane	ND		ug/kg	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	95		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-09
Client ID: 50TUFT-B104(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 10:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 18:25
Analyst: MAG
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	2.9	--	1
1,1-Dichloroethane	ND		ug/kg	0.57	--	1
Chloroform	ND		ug/kg	0.86	--	1
Carbon tetrachloride	ND		ug/kg	0.57	--	1
1,2-Dichloropropane	ND		ug/kg	0.57	--	1
Dibromochloromethane	ND		ug/kg	0.57	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.57	--	1
Tetrachloroethene	23		ug/kg	0.29	--	1
Chlorobenzene	ND		ug/kg	0.29	--	1
Trichlorofluoromethane	ND		ug/kg	2.3	--	1
1,2-Dichloroethane	ND		ug/kg	0.57	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.29	--	1
Bromodichloromethane	ND		ug/kg	0.29	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.57	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.29	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.29	--	1
1,1-Dichloropropene	ND		ug/kg	0.29	--	1
Bromoform	ND		ug/kg	2.3	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.29	--	1
Benzene	ND		ug/kg	0.29	--	1
Toluene	ND		ug/kg	0.57	--	1
Ethylbenzene	ND		ug/kg	0.57	--	1
Chloromethane	ND		ug/kg	2.3	--	1
Bromomethane	ND		ug/kg	1.1	--	1
Vinyl chloride	ND		ug/kg	0.57	--	1
Chloroethane	ND		ug/kg	1.1	--	1
1,1-Dichloroethene	ND		ug/kg	0.57	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.86	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-09
Client ID: 50TUFT-B104(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 10:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.29	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.1	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.1	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.1	--	1
Methyl tert butyl ether	ND		ug/kg	1.1	--	1
p/m-Xylene	ND		ug/kg	1.1	--	1
o-Xylene	ND		ug/kg	0.57	--	1
Xylenes, Total	ND		ug/kg	0.57	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.57	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.57	--	1
Dibromomethane	ND		ug/kg	1.1	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.1	--	1
Styrene	ND		ug/kg	0.57	--	1
Dichlorodifluoromethane	ND		ug/kg	5.7	--	1
Acetone	ND		ug/kg	14	--	1
Carbon disulfide	ND		ug/kg	5.7	--	1
Methyl ethyl ketone	ND		ug/kg	5.7	--	1
Methyl isobutyl ketone	ND		ug/kg	5.7	--	1
2-Hexanone	ND		ug/kg	5.7	--	1
Bromochloromethane	ND		ug/kg	1.1	--	1
Tetrahydrofuran	ND		ug/kg	2.3	--	1
2,2-Dichloropropane	ND		ug/kg	1.1	--	1
1,2-Dibromoethane	ND		ug/kg	0.57	--	1
1,3-Dichloropropane	ND		ug/kg	1.1	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.29	--	1
Bromobenzene	ND		ug/kg	1.1	--	1
n-Butylbenzene	ND		ug/kg	0.57	--	1
sec-Butylbenzene	ND		ug/kg	0.57	--	1
tert-Butylbenzene	ND		ug/kg	1.1	--	1
o-Chlorotoluene	ND		ug/kg	1.1	--	1
p-Chlorotoluene	ND		ug/kg	1.1	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.7	--	1
Hexachlorobutadiene	ND		ug/kg	2.3	--	1
Isopropylbenzene	ND		ug/kg	0.57	--	1
p-Isopropyltoluene	ND		ug/kg	0.57	--	1
Naphthalene	ND		ug/kg	2.3	--	1
n-Propylbenzene	ND		ug/kg	0.57	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-09
Client ID: 50TUFT-B104(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 10:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.1	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.1	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.1	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.1	--	1
Diethyl ether	ND		ug/kg	1.1	--	1
Diisopropyl Ether	ND		ug/kg	1.1	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.1	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.1	--	1
1,4-Dioxane	ND		ug/kg	46	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-10
Client ID: 50TUFT-B104(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 10:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 18:56
Analyst: MAG
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.3	--	1
1,1-Dichloroethane	ND		ug/kg	0.67	--	1
Chloroform	ND		ug/kg	1.0	--	1
Carbon tetrachloride	ND		ug/kg	0.67	--	1
1,2-Dichloropropane	ND		ug/kg	0.67	--	1
Dibromochloromethane	ND		ug/kg	0.67	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.67	--	1
Tetrachloroethene	15		ug/kg	0.33	--	1
Chlorobenzene	ND		ug/kg	0.33	--	1
Trichlorofluoromethane	ND		ug/kg	2.7	--	1
1,2-Dichloroethane	ND		ug/kg	0.67	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.33	--	1
Bromodichloromethane	ND		ug/kg	0.33	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.67	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.33	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.33	--	1
1,1-Dichloropropene	ND		ug/kg	0.33	--	1
Bromoform	ND		ug/kg	2.7	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.33	--	1
Benzene	ND		ug/kg	0.33	--	1
Toluene	ND		ug/kg	0.67	--	1
Ethylbenzene	ND		ug/kg	0.67	--	1
Chloromethane	ND		ug/kg	2.7	--	1
Bromomethane	ND		ug/kg	1.3	--	1
Vinyl chloride	ND		ug/kg	0.67	--	1
Chloroethane	ND		ug/kg	1.3	--	1
1,1-Dichloroethene	ND		ug/kg	0.67	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.0	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-10
Client ID: 50TUFT-B104(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 10:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.33	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.3	--	1
Methyl tert butyl ether	ND		ug/kg	1.3	--	1
p/m-Xylene	ND		ug/kg	1.3	--	1
o-Xylene	ND		ug/kg	0.67	--	1
Xylenes, Total	ND		ug/kg	0.67	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.67	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.67	--	1
Dibromomethane	ND		ug/kg	1.3	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.3	--	1
Styrene	ND		ug/kg	0.67	--	1
Dichlorodifluoromethane	ND		ug/kg	6.7	--	1
Acetone	ND		ug/kg	17	--	1
Carbon disulfide	ND		ug/kg	6.7	--	1
Methyl ethyl ketone	ND		ug/kg	6.7	--	1
Methyl isobutyl ketone	ND		ug/kg	6.7	--	1
2-Hexanone	ND		ug/kg	6.7	--	1
Bromochloromethane	ND		ug/kg	1.3	--	1
Tetrahydrofuran	ND		ug/kg	2.7	--	1
2,2-Dichloropropane	ND		ug/kg	1.3	--	1
1,2-Dibromoethane	ND		ug/kg	0.67	--	1
1,3-Dichloropropane	ND		ug/kg	1.3	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.33	--	1
Bromobenzene	ND		ug/kg	1.3	--	1
n-Butylbenzene	ND		ug/kg	0.67	--	1
sec-Butylbenzene	ND		ug/kg	0.67	--	1
tert-Butylbenzene	ND		ug/kg	1.3	--	1
o-Chlorotoluene	ND		ug/kg	1.3	--	1
p-Chlorotoluene	ND		ug/kg	1.3	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.0	--	1
Hexachlorobutadiene	ND		ug/kg	2.7	--	1
Isopropylbenzene	ND		ug/kg	0.67	--	1
p-Isopropyltoluene	ND		ug/kg	0.67	--	1
Naphthalene	ND		ug/kg	2.7	--	1
n-Propylbenzene	ND		ug/kg	0.67	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-10
Client ID: 50TUFT-B104(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 10:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.3	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.3	--	1
Diethyl ether	ND		ug/kg	1.3	--	1
Diisopropyl Ether	ND		ug/kg	1.3	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.3	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.3	--	1
1,4-Dioxane	ND		ug/kg	53	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	97		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-11
Client ID: 50TUFT-B104(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 10:02
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 19:26
Analyst: MAG
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.4	--	1
1,1-Dichloroethane	ND		ug/kg	0.88	--	1
Chloroform	ND		ug/kg	1.3	--	1
Carbon tetrachloride	ND		ug/kg	0.88	--	1
1,2-Dichloropropane	ND		ug/kg	0.88	--	1
Dibromochloromethane	ND		ug/kg	0.88	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.88	--	1
Tetrachloroethene	2.4		ug/kg	0.44	--	1
Chlorobenzene	ND		ug/kg	0.44	--	1
Trichlorofluoromethane	ND		ug/kg	3.5	--	1
1,2-Dichloroethane	ND		ug/kg	0.88	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.44	--	1
Bromodichloromethane	ND		ug/kg	0.44	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.88	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.44	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.44	--	1
1,1-Dichloropropene	ND		ug/kg	0.44	--	1
Bromoform	ND		ug/kg	3.5	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.44	--	1
Benzene	ND		ug/kg	0.44	--	1
Toluene	ND		ug/kg	0.88	--	1
Ethylbenzene	ND		ug/kg	0.88	--	1
Chloromethane	ND		ug/kg	3.5	--	1
Bromomethane	ND		ug/kg	1.8	--	1
Vinyl chloride	ND		ug/kg	0.88	--	1
Chloroethane	ND		ug/kg	1.8	--	1
1,1-Dichloroethene	ND		ug/kg	0.88	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	--	1

Project Name: TUFTS STREET **Lab Number:** L2408101

Project Number: 045163 **Report Date:** 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-11 Date Collected: 02/12/24 10:02

Client ID: 50TUFT-B104(3-5) Date Received: 02/14/24

Sample Location: SOMERVILLE, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.44	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	--	1
Methyl tert butyl ether	ND		ug/kg	1.8	--	1
p/m-Xylene	ND		ug/kg	1.8	--	1
o-Xylene	ND		ug/kg	0.88	--	1
Xylenes, Total	ND		ug/kg	0.88	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.88	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.88	--	1
Dibromomethane	ND		ug/kg	1.8	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	--	1
Styrene	ND		ug/kg	0.88	--	1
Dichlorodifluoromethane	ND		ug/kg	8.8	--	1
Acetone	ND		ug/kg	22	--	1
Carbon disulfide	ND		ug/kg	8.8	--	1
Methyl ethyl ketone	ND		ug/kg	8.8	--	1
Methyl isobutyl ketone	ND		ug/kg	8.8	--	1
2-Hexanone	ND		ug/kg	8.8	--	1
Bromochloromethane	ND		ug/kg	1.8	--	1
Tetrahydrofuran	ND		ug/kg	3.5	--	1
2,2-Dichloropropane	ND		ug/kg	1.8	--	1
1,2-Dibromoethane	ND		ug/kg	0.88	--	1
1,3-Dichloropropane	ND		ug/kg	1.8	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.44	--	1
Bromobenzene	ND		ug/kg	1.8	--	1
n-Butylbenzene	ND		ug/kg	0.88	--	1
sec-Butylbenzene	ND		ug/kg	0.88	--	1
tert-Butylbenzene	ND		ug/kg	1.8	--	1
o-Chlorotoluene	ND		ug/kg	1.8	--	1
p-Chlorotoluene	ND		ug/kg	1.8	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	--	1
Hexachlorobutadiene	ND		ug/kg	3.5	--	1
Isopropylbenzene	ND		ug/kg	0.88	--	1
p-Isopropyltoluene	ND		ug/kg	0.88	--	1
Naphthalene	ND		ug/kg	3.5	--	1
n-Propylbenzene	ND		ug/kg	0.88	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-11
Client ID: 50TUFT-B104(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 10:02
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	--	1
Diethyl ether	ND		ug/kg	1.8	--	1
Diisopropyl Ether	ND		ug/kg	1.8	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.8	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.8	--	1
1,4-Dioxane	ND		ug/kg	70	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	95		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-12
Client ID: 50TUFT-B105(0-1)
Sample Location: SOMERVILLE, MA

Date Collected: 02/12/24 11:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 20:57
Analyst: MAG
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	220	--	1
1,1-Dichloroethane	ND		ug/kg	44	--	1
Chloroform	ND		ug/kg	67	--	1
Carbon tetrachloride	ND		ug/kg	44	--	1
1,2-Dichloropropane	ND		ug/kg	44	--	1
Dibromochloromethane	ND		ug/kg	44	--	1
1,1,2-Trichloroethane	ND		ug/kg	44	--	1
Tetrachloroethene	810		ug/kg	22	--	1
Chlorobenzene	ND		ug/kg	22	--	1
Trichlorofluoromethane	ND		ug/kg	180	--	1
1,2-Dichloroethane	ND		ug/kg	44	--	1
1,1,1-Trichloroethane	ND		ug/kg	22	--	1
Bromodichloromethane	ND		ug/kg	22	--	1
trans-1,3-Dichloropropene	ND		ug/kg	44	--	1
cis-1,3-Dichloropropene	ND		ug/kg	22	--	1
1,3-Dichloropropene, Total	ND		ug/kg	22	--	1
1,1-Dichloropropene	ND		ug/kg	22	--	1
Bromoform	ND		ug/kg	180	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	22	--	1
Benzene	ND		ug/kg	22	--	1
Toluene	53		ug/kg	44	--	1
Ethylbenzene	ND		ug/kg	44	--	1
Chloromethane	ND		ug/kg	180	--	1
Bromomethane	ND		ug/kg	89	--	1
Vinyl chloride	ND		ug/kg	44	--	1
Chloroethane	ND		ug/kg	89	--	1
1,1-Dichloroethene	ND		ug/kg	44	--	1
trans-1,2-Dichloroethene	ND		ug/kg	67	--	1

Project Name: TUFTS STREET **Lab Number:** L2408101

Project Number: 045163 **Report Date:** 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-12 Date Collected: 02/12/24 11:00

Client ID: 50TUFT-B105(0-1) Date Received: 02/14/24

Sample Location: SOMERVILLE, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	22	--	1
1,2-Dichlorobenzene	ND		ug/kg	89	--	1
1,3-Dichlorobenzene	ND		ug/kg	89	--	1
1,4-Dichlorobenzene	ND		ug/kg	89	--	1
Methyl tert butyl ether	ND		ug/kg	89	--	1
p/m-Xylene	ND		ug/kg	89	--	1
o-Xylene	ND		ug/kg	44	--	1
Xylenes, Total	ND		ug/kg	44	--	1
cis-1,2-Dichloroethene	ND		ug/kg	44	--	1
1,2-Dichloroethene, Total	ND		ug/kg	44	--	1
Dibromomethane	ND		ug/kg	89	--	1
1,2,3-Trichloropropane	ND		ug/kg	89	--	1
Styrene	ND		ug/kg	44	--	1
Dichlorodifluoromethane	ND		ug/kg	440	--	1
Acetone	ND		ug/kg	440	--	1
Carbon disulfide	ND		ug/kg	440	--	1
Methyl ethyl ketone	ND		ug/kg	440	--	1
Methyl isobutyl ketone	ND		ug/kg	440	--	1
2-Hexanone	ND		ug/kg	440	--	1
Bromochloromethane	ND		ug/kg	89	--	1
Tetrahydrofuran	ND		ug/kg	180	--	1
2,2-Dichloropropane	ND		ug/kg	89	--	1
1,2-Dibromoethane	ND		ug/kg	44	--	1
1,3-Dichloropropane	ND		ug/kg	89	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	22	--	1
Bromobenzene	ND		ug/kg	89	--	1
n-Butylbenzene	ND		ug/kg	44	--	1
sec-Butylbenzene	ND		ug/kg	44	--	1
tert-Butylbenzene	ND		ug/kg	89	--	1
o-Chlorotoluene	ND		ug/kg	89	--	1
p-Chlorotoluene	ND		ug/kg	89	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	130	--	1
Hexachlorobutadiene	ND		ug/kg	180	--	1
Isopropylbenzene	ND		ug/kg	44	--	1
p-Isopropyltoluene	ND		ug/kg	44	--	1
Naphthalene	ND		ug/kg	180	--	1
n-Propylbenzene	ND		ug/kg	44	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-12
Client ID: 50TUFT-B105(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 11:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	89	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	89	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	89	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	89	--	1
Diethyl ether	ND		ug/kg	89	--	1
Diisopropyl Ether	ND		ug/kg	89	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	89	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	89	--	1
1,4-Dioxane	ND		ug/kg	3600	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	94		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-13
Client ID: 50TUFT-B105(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 11:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 19:56
Analyst: MAG
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.1	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.8	--	1
Carbon tetrachloride	ND		ug/kg	1.2	--	1
1,2-Dichloropropane	ND		ug/kg	1.2	--	1
Dibromochloromethane	ND		ug/kg	1.2	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	10		ug/kg	0.61	--	1
Chlorobenzene	ND		ug/kg	0.61	--	1
Trichlorofluoromethane	ND		ug/kg	4.8	--	1
1,2-Dichloroethane	ND		ug/kg	1.2	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	--	1
Bromodichloromethane	ND		ug/kg	0.61	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.61	--	1
1,1-Dichloropropene	ND		ug/kg	0.61	--	1
Bromoform	ND		ug/kg	4.8	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	--	1
Benzene	ND		ug/kg	0.61	--	1
Toluene	ND		ug/kg	1.2	--	1
Ethylbenzene	ND		ug/kg	1.2	--	1
Chloromethane	ND		ug/kg	4.8	--	1
Bromomethane	ND		ug/kg	2.4	--	1
Vinyl chloride	ND		ug/kg	1.2	--	1
Chloroethane	ND		ug/kg	2.4	--	1
1,1-Dichloroethene	ND		ug/kg	1.2	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-13
Client ID: 50TUFT-B105(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 11:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.61	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	--	1
Methyl tert butyl ether	ND		ug/kg	2.4	--	1
p/m-Xylene	ND		ug/kg	2.4	--	1
o-Xylene	ND		ug/kg	1.2	--	1
Xylenes, Total	ND		ug/kg	1.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	--	1
Dibromomethane	ND		ug/kg	2.4	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	--	1
Styrene	ND		ug/kg	1.2	--	1
Dichlorodifluoromethane	ND		ug/kg	12	--	1
Acetone	ND		ug/kg	30	--	1
Carbon disulfide	ND		ug/kg	12	--	1
Methyl ethyl ketone	ND		ug/kg	12	--	1
Methyl isobutyl ketone	ND		ug/kg	12	--	1
2-Hexanone	ND		ug/kg	12	--	1
Bromochloromethane	ND		ug/kg	2.4	--	1
Tetrahydrofuran	ND		ug/kg	4.8	--	1
2,2-Dichloropropane	ND		ug/kg	2.4	--	1
1,2-Dibromoethane	ND		ug/kg	1.2	--	1
1,3-Dichloropropane	ND		ug/kg	2.4	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.61	--	1
Bromobenzene	ND		ug/kg	2.4	--	1
n-Butylbenzene	ND		ug/kg	1.2	--	1
sec-Butylbenzene	ND		ug/kg	1.2	--	1
tert-Butylbenzene	ND		ug/kg	2.4	--	1
o-Chlorotoluene	ND		ug/kg	2.4	--	1
p-Chlorotoluene	ND		ug/kg	2.4	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	--	1
Hexachlorobutadiene	ND		ug/kg	4.8	--	1
Isopropylbenzene	ND		ug/kg	1.2	--	1
p-Isopropyltoluene	ND		ug/kg	1.2	--	1
Naphthalene	ND		ug/kg	4.8	--	1
n-Propylbenzene	ND		ug/kg	1.2	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-13
Client ID: 50TUFT-B105(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 11:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	--	1
Diethyl ether	ND		ug/kg	2.4	--	1
Diisopropyl Ether	ND		ug/kg	2.4	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.4	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.4	--	1
1,4-Dioxane	ND		ug/kg	97	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	96		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/15/24 13:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07,12 Batch: WG1886042-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/15/24 13:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07,12 Batch: WG1886042-5					
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	100	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/15/24 13:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07,12 Batch: WG1886042-5					
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	92		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/15/24 13:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05,08-11,13 Batch: WG1886062-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/15/24 13:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05,08-11,13 Batch: WG1886062-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	25	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	2.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/15/24 13:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05,08-11,13 Batch: WG1886062-5					
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	92		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/20/24 10:26
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06 Batch: WG1887347-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	76		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/20/24 10:26
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06 Batch: WG1887347-5					
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	100	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/20/24 10:26
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06 Batch: WG1887347-5					
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	94		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/21/24 09:56
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06 Batch: WG1887734-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/21/24 09:56
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06 Batch: WG1887734-5					
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	100	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/21/24 09:56
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06 Batch: WG1887734-5					
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07,12 Batch: WG1886042-3 WG1886042-4								
Methylene chloride	77		78		70-130	1		20
1,1-Dichloroethane	81		81		70-130	0		20
Chloroform	84		84		70-130	0		20
Carbon tetrachloride	73		73		70-130	0		20
1,2-Dichloropropane	85		85		70-130	0		20
Dibromochloromethane	90		90		70-130	0		20
1,1,2-Trichloroethane	86		86		70-130	0		20
Tetrachloroethene	91		90		70-130	1		20
Chlorobenzene	86		85		70-130	1		20
Trichlorofluoromethane	73		72		70-130	1		20
1,2-Dichloroethane	84		84		70-130	0		20
1,1,1-Trichloroethane	86		85		70-130	1		20
Bromodichloromethane	87		86		70-130	1		20
trans-1,3-Dichloropropene	92		92		70-130	0		20
cis-1,3-Dichloropropene	92		92		70-130	0		20
1,1-Dichloropropene	88		88		70-130	0		20
Bromoform	89		87		70-130	2		20
1,1,2,2-Tetrachloroethane	83		82		70-130	1		20
Benzene	84		84		70-130	0		20
Toluene	84		84		70-130	0		20
Ethylbenzene	86		86		70-130	0		20
Chloromethane	**67**	Q	**67**	Q	70-130	0		20
Bromomethane	73		73		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab	Associated sample(s): 07,12		Batch: WG1886042-3 WG1886042-4					
Vinyl chloride	72		72		70-130	0		20
Chloroethane	78		78		70-130	0		20
1,1-Dichloroethene	**68**	Q	**68**	Q	70-130	0		20
trans-1,2-Dichloroethene	80		80		70-130	0		20
Trichloroethene	86		86		70-130	0		20
1,2-Dichlorobenzene	88		87		70-130	1		20
1,3-Dichlorobenzene	88		87		70-130	1		20
1,4-Dichlorobenzene	87		86		70-130	1		20
Methyl tert butyl ether	86		86		70-130	0		20
p/m-Xylene	88		88		70-130	0		20
o-Xylene	88		88		70-130	0		20
cis-1,2-Dichloroethene	84		83		70-130	1		20
Dibromomethane	86		84		70-130	2		20
1,2,3-Trichloropropane	82		81		70-130	1		20
Styrene	90		90		70-130	0		20
Dichlorodifluoromethane	**62**	Q	**62**	Q	70-130	0		20
Acetone	**64**	Q	**64**	Q	70-130	0		20
Carbon disulfide	**68**	Q	**68**	Q	70-130	0		20
Methyl ethyl ketone	71		71		70-130	0		20
Methyl isobutyl ketone	85		85		70-130	0		20
2-Hexanone	78		76		70-130	3		20
Bromochloromethane	87		86		70-130	1		20
Tetrahydrofuran	**65**	Q	**64**	Q	70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07,12 Batch: WG1886042-3 WG1886042-4								
2,2-Dichloropropane	87		86		70-130	1		20
1,2-Dibromoethane	88		87		70-130	1		20
1,3-Dichloropropane	86		85		70-130	1		20
1,1,1,2-Tetrachloroethane	89		89		70-130	0		20
Bromobenzene	89		88		70-130	1		20
n-Butylbenzene	91		89		70-130	2		20
sec-Butylbenzene	89		88		70-130	1		20
tert-Butylbenzene	89		89		70-130	0		20
o-Chlorotoluene	88		87		70-130	1		20
p-Chlorotoluene	88		88		70-130	0		20
1,2-Dibromo-3-chloropropane	82		80		70-130	2		20
Hexachlorobutadiene	84		82		70-130	2		20
Isopropylbenzene	89		88		70-130	1		20
p-Isopropyltoluene	90		89		70-130	1		20
Naphthalene	88		86		70-130	2		20
n-Propylbenzene	88		88		70-130	0		20
1,2,3-Trichlorobenzene	92		90		70-130	2		20
1,2,4-Trichlorobenzene	94		90		70-130	4		20
1,3,5-Trimethylbenzene	90		88		70-130	2		20
1,2,4-Trimethylbenzene	90		89		70-130	1		20
Diethyl ether	86		85		70-130	1		20
Diisopropyl Ether	83		83		70-130	0		20
Ethyl-Tert-Butyl-Ether	91		90		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07,12 Batch: WG1886042-3 WG1886042-4								
Tertiary-Amyl Methyl Ether	94		93		70-130	1		20
1,4-Dioxane	87		84		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		89		70-130
Toluene-d8	92		92		70-130
4-Bromofluorobenzene	94		94		70-130
Dibromofluoromethane	91		92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,08-11,13 Batch: WG1886062-3 WG1886062-4								
Methylene chloride	77		78		70-130	1		20
1,1-Dichloroethane	81		81		70-130	0		20
Chloroform	84		84		70-130	0		20
Carbon tetrachloride	73		73		70-130	0		20
1,2-Dichloropropane	85		85		70-130	0		20
Dibromochloromethane	90		90		70-130	0		20
1,1,2-Trichloroethane	86		86		70-130	0		20
Tetrachloroethene	91		90		70-130	1		20
Chlorobenzene	86		85		70-130	1		20
Trichlorofluoromethane	73		72		70-130	1		20
1,2-Dichloroethane	84		84		70-130	0		20
1,1,1-Trichloroethane	86		85		70-130	1		20
Bromodichloromethane	87		86		70-130	1		20
trans-1,3-Dichloropropene	92		92		70-130	0		20
cis-1,3-Dichloropropene	92		92		70-130	0		20
1,1-Dichloropropene	88		88		70-130	0		20
Bromoform	89		87		70-130	2		20
1,1,2,2-Tetrachloroethane	83		82		70-130	1		20
Benzene	84		84		70-130	0		20
Toluene	84		84		70-130	0		20
Ethylbenzene	86		86		70-130	0		20
Chloromethane	**67**	Q	**67**	Q	70-130	0		20
Bromomethane	73		73		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,08-11,13 Batch: WG1886062-3 WG1886062-4								
Vinyl chloride	72		72		70-130	0		20
Chloroethane	78		78		70-130	0		20
1,1-Dichloroethene	**68**	Q	**68**	Q	70-130	0		20
trans-1,2-Dichloroethene	80		80		70-130	0		20
Trichloroethene	86		86		70-130	0		20
1,2-Dichlorobenzene	88		87		70-130	1		20
1,3-Dichlorobenzene	88		87		70-130	1		20
1,4-Dichlorobenzene	87		86		70-130	1		20
Methyl tert butyl ether	86		86		70-130	0		20
p/m-Xylene	88		88		70-130	0		20
o-Xylene	88		88		70-130	0		20
cis-1,2-Dichloroethene	84		83		70-130	1		20
Dibromomethane	86		84		70-130	2		20
1,2,3-Trichloropropane	82		81		70-130	1		20
Styrene	90		90		70-130	0		20
Dichlorodifluoromethane	**62**	Q	**62**	Q	70-130	0		20
Acetone	**64**	Q	**64**	Q	70-130	0		20
Carbon disulfide	**68**	Q	**68**	Q	70-130	0		20
Methyl ethyl ketone	71		71		70-130	0		20
Methyl isobutyl ketone	85		85		70-130	0		20
2-Hexanone	78		76		70-130	3		20
Bromochloromethane	87		86		70-130	1		20
Tetrahydrofuran	**65**	Q	**64**	Q	70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,08-11,13 Batch: WG1886062-3 WG1886062-4								
2,2-Dichloropropane	87		86		70-130	1		20
1,2-Dibromoethane	88		87		70-130	1		20
1,3-Dichloropropane	86		85		70-130	1		20
1,1,1,2-Tetrachloroethane	89		89		70-130	0		20
Bromobenzene	89		88		70-130	1		20
n-Butylbenzene	91		89		70-130	2		20
sec-Butylbenzene	89		88		70-130	1		20
tert-Butylbenzene	89		89		70-130	0		20
o-Chlorotoluene	88		87		70-130	1		20
p-Chlorotoluene	88		88		70-130	0		20
1,2-Dibromo-3-chloropropane	82		80		70-130	2		20
Hexachlorobutadiene	84		82		70-130	2		20
Isopropylbenzene	89		88		70-130	1		20
p-Isopropyltoluene	90		89		70-130	1		20
Naphthalene	88		86		70-130	2		20
n-Propylbenzene	88		88		70-130	0		20
1,2,3-Trichlorobenzene	92		90		70-130	2		20
1,2,4-Trichlorobenzene	94		90		70-130	4		20
1,3,5-Trimethylbenzene	90		88		70-130	2		20
1,2,4-Trimethylbenzene	90		89		70-130	1		20
Diethyl ether	86		85		70-130	1		20
Diisopropyl Ether	83		83		70-130	0		20
Ethyl-Tert-Butyl-Ether	91		90		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,08-11,13 Batch: WG1886062-3 WG1886062-4								
Tertiary-Amyl Methyl Ether	94		93		70-130	1		20
1,4-Dioxane	87		84		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		89		70-130
Toluene-d8	92		92		70-130
4-Bromofluorobenzene	94		94		70-130
Dibromofluoromethane	91		92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1887347-3 WG1887347-4								
Methylene chloride	95		93		70-130	2		20
1,1-Dichloroethane	97		93		70-130	4		20
Chloroform	98		95		70-130	3		20
Carbon tetrachloride	100		97		70-130	3		20
1,2-Dichloropropane	90		87		70-130	3		20
Dibromochloromethane	96		95		70-130	1		20
1,1,2-Trichloroethane	87		86		70-130	1		20
Tetrachloroethene	111		106		70-130	5		20
Chlorobenzene	103		100		70-130	3		20
Trichlorofluoromethane	113		110		70-130	3		20
1,2-Dichloroethane	86		85		70-130	1		20
1,1,1-Trichloroethane	113		108		70-130	5		20
Bromodichloromethane	93		91		70-130	2		20
trans-1,3-Dichloropropene	90		88		70-130	2		20
cis-1,3-Dichloropropene	96		93		70-130	3		20
1,1-Dichloropropene	106		102		70-130	4		20
Bromoform	87		87		70-130	0		20
1,1,2,2-Tetrachloroethane	76		78		70-130	3		20
Benzene	103		99		70-130	4		20
Toluene	103		98		70-130	5		20
Ethylbenzene	104		101		70-130	3		20
Chloromethane	**68**	Q	**64**	Q	70-130	6		20
Bromomethane	120		109		70-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1887347-3 WG1887347-4								
Vinyl chloride	80		76		70-130	5		20
Chloroethane	98		93		70-130	5		20
1,1-Dichloroethene	110		106		70-130	4		20
trans-1,2-Dichloroethene	107		104		70-130	3		20
Trichloroethene	110		106		70-130	4		20
1,2-Dichlorobenzene	100		97		70-130	3		20
1,3-Dichlorobenzene	104		101		70-130	3		20
1,4-Dichlorobenzene	103		99		70-130	4		20
Methyl tert butyl ether	85		85		70-130	0		20
p/m-Xylene	110		106		70-130	4		20
o-Xylene	104		101		70-130	3		20
cis-1,2-Dichloroethene	102		98		70-130	4		20
Dibromomethane	89		87		70-130	2		20
1,2,3-Trichloropropane	76		77		70-130	1		20
Styrene	102		99		70-130	3		20
Dichlorodifluoromethane	**49**	Q	**46**	Q	70-130	6		20
Acetone	**68**	Q	**67**	Q	70-130	1		20
Carbon disulfide	97		94		70-130	3		20
Methyl ethyl ketone	**62**	Q	**65**	Q	70-130	5		20
Methyl isobutyl ketone	**69**	Q	70		70-130	1		20
2-Hexanone	**64**	Q	**65**	Q	70-130	2		20
Bromochloromethane	97		95		70-130	2		20
Tetrahydrofuran	**58**	Q	**63**	Q	70-130	8		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1887347-3 WG1887347-4								
2,2-Dichloropropane	106		101		70-130	5		20
1,2-Dibromoethane	92		91		70-130	1		20
1,3-Dichloropropane	88		87		70-130	1		20
1,1,1,2-Tetrachloroethane	102		100		70-130	2		20
Bromobenzene	99		96		70-130	3		20
n-Butylbenzene	107		103		70-130	4		20
sec-Butylbenzene	108		103		70-130	5		20
tert-Butylbenzene	107		102		70-130	5		20
o-Chlorotoluene	95		94		70-130	1		20
p-Chlorotoluene	98		93		70-130	5		20
1,2-Dibromo-3-chloropropane	74		79		70-130	7		20
Hexachlorobutadiene	115		111		70-130	4		20
Isopropylbenzene	105		100		70-130	5		20
p-Isopropyltoluene	108		104		70-130	4		20
Naphthalene	95		91		70-130	4		20
n-Propylbenzene	104		100		70-130	4		20
1,2,3-Trichlorobenzene	103		100		70-130	3		20
1,2,4-Trichlorobenzene	109		105		70-130	4		20
1,3,5-Trimethylbenzene	102		98		70-130	4		20
1,2,4-Trimethylbenzene	99		95		70-130	4		20
Diethyl ether	89		89		70-130	0		20
Diisopropyl Ether	85		82		70-130	4		20
Ethyl-Tert-Butyl-Ether	87		86		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1887347-3 WG1887347-4								
Tertiary-Amyl Methyl Ether	87		87		70-130	0		20
1,4-Dioxane	77		76		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	84		84		70-130
Toluene-d8	92		91		70-130
4-Bromofluorobenzene	87		87		70-130
Dibromofluoromethane	96		97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1887734-3 WG1887734-4								
Methylene chloride	96		96		70-130	0		20
1,1-Dichloroethane	98		98		70-130	0		20
Chloroform	99		100		70-130	1		20
Carbon tetrachloride	99		99		70-130	0		20
1,2-Dichloropropane	92		92		70-130	0		20
Dibromochloromethane	98		101		70-130	3		20
1,1,2-Trichloroethane	90		92		70-130	2		20
Tetrachloroethene	108		108		70-130	0		20
Chlorobenzene	103		104		70-130	1		20
Trichlorofluoromethane	106		106		70-130	0		20
1,2-Dichloroethane	88		90		70-130	2		20
1,1,1-Trichloroethane	112		111		70-130	1		20
Bromodichloromethane	96		96		70-130	0		20
trans-1,3-Dichloropropene	92		93		70-130	1		20
cis-1,3-Dichloropropene	97		98		70-130	1		20
1,1-Dichloropropene	104		104		70-130	0		20
Bromoform	94		96		70-130	2		20
1,1,2,2-Tetrachloroethane	84		85		70-130	1		20
Benzene	103		104		70-130	1		20
Toluene	102		102		70-130	0		20
Ethylbenzene	105		105		70-130	0		20
Chloromethane	**66**	Q	**65**	Q	70-130	2		20
Bromomethane	108		108		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1887734-3 WG1887734-4								
Vinyl chloride	75		76		70-130	1		20
Chloroethane	95		95		70-130	0		20
1,1-Dichloroethene	108		107		70-130	1		20
trans-1,2-Dichloroethene	108		107		70-130	1		20
Trichloroethene	108		109		70-130	1		20
1,2-Dichlorobenzene	102		102		70-130	0		20
1,3-Dichlorobenzene	106		105		70-130	1		20
1,4-Dichlorobenzene	104		104		70-130	0		20
Methyl tert butyl ether	88		90		70-130	2		20
p/m-Xylene	109		110		70-130	1		20
o-Xylene	104		104		70-130	0		20
cis-1,2-Dichloroethene	102		103		70-130	1		20
Dibromomethane	92		93		70-130	1		20
1,2,3-Trichloropropane	81		83		70-130	2		20
Styrene	101		101		70-130	0		20
Dichlorodifluoromethane	**41**	Q	**41**	Q	70-130	0		20
Acetone	77		**69**	Q	70-130	11		20
Carbon disulfide	96		96		70-130	0		20
Methyl ethyl ketone	**68**	Q	70		70-130	3		20
Methyl isobutyl ketone	73		76		70-130	4		20
2-Hexanone	**69**	Q	70		70-130	1		20
Bromochloromethane	98		99		70-130	1		20
Tetrahydrofuran	**64**	Q	**64**	Q	70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1887734-3 WG1887734-4								
2,2-Dichloropropane	105		105		70-130	0		20
1,2-Dibromoethane	95		96		70-130	1		20
1,3-Dichloropropane	90		92		70-130	2		20
1,1,1,2-Tetrachloroethane	104		105		70-130	1		20
Bromobenzene	101		100		70-130	1		20
n-Butylbenzene	108		106		70-130	2		20
sec-Butylbenzene	108		107		70-130	1		20
tert-Butylbenzene	107		106		70-130	1		20
o-Chlorotoluene	95		98		70-130	3		20
p-Chlorotoluene	99		98		70-130	1		20
1,2-Dibromo-3-chloropropane	86		87		70-130	1		20
Hexachlorobutadiene	116		115		70-130	1		20
Isopropylbenzene	104		104		70-130	0		20
p-Isopropyltoluene	109		108		70-130	1		20
Naphthalene	96		96		70-130	0		20
n-Propylbenzene	105		104		70-130	1		20
1,2,3-Trichlorobenzene	107		107		70-130	0		20
1,2,4-Trichlorobenzene	114		112		70-130	2		20
1,3,5-Trimethylbenzene	103		101		70-130	2		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20
Diethyl ether	91		94		70-130	3		20
Diisopropyl Ether	86		87		70-130	1		20
Ethyl-Tert-Butyl-Ether	90		91		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1887734-3 WG1887734-4								
Tertiary-Amyl Methyl Ether	89		91		70-130	2		20
1,4-Dioxane	90		91		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	84		86		70-130
Toluene-d8	91		91		70-130
4-Bromofluorobenzene	85		86		70-130
Dibromofluoromethane	96		98		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-01
Client ID: 50TUFT-B101(0-1)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 08:30
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.0		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-02
Client ID: 50TUFT-B101(1-3)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 08:31
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.7		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-03
Client ID: 50TUFT-B101(3-5)
Sample Location: SOMERVILLE, MA

Date Collected: 02/12/24 08:32
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.1		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-04
Client ID: 50TUFT-B102(0-1)
Sample Location: SOMERVILLE, MA

Date Collected: 02/12/24 09:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.6		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-05
Client ID: 50TUFT-B102(1-3)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 09:01
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.6		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-06
Client ID: 50TUFT-B103(0-1)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 09:30
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.1		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-07
Client ID: 50TUFT-B103(1-3)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 09:31
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.4		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-08
Client ID: 50TUFT-B103(3-5)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 09:32
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.7		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-09
Client ID: 50TUFT-B104(0-1)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 10:00
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.8		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-10
Client ID: 50TUFT-B104(1-3)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 10:01
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.6		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-11
Client ID: 50TUFT-B104(3-5)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 10:02
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.3		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-12
Client ID: 50TUFT-B105(0-1)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 11:00
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.1		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-13
Client ID: 50TUFT-B105(1-3)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 11:01
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.8		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Lab Duplicate Analysis

Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1885410-1 QC Sample: L2408101-01 Client ID: 50TUFT-B101(0-1)						
Solids, Total	80.0	79.7	%	0		20

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2408101-01A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-01B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-01C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-01D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-02A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-02B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-02C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-02D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-03A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-03B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-03C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-03D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-04A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-04B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-04C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-04D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-05A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-05B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-05C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-05D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-06A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-06B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-06C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)

*Values in parentheses indicate holding time in days

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2408101-06D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-07A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-07B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-07C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-07D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-08A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-08B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-08C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-08D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-09A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-09B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-09C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-09D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-10A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-10B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-10C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-10D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-11A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-11B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-11C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-11D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-12A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-12B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-12C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-12D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-13A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-13B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-13C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)

*Values in parentheses indicate holding time in days

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2408101-13D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name:	TUFTS STREET	**Lab Number:**	L2408101
Project Number:	045163	**Report Date:**	02/21/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2408101
Project Number:	045163	**Report Date:**	02/21/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2408101
Project Number:	045163	**Report Date:**	02/21/24

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2408101
Project Number:	045163	**Report Date:**	02/21/24

REFERENCES

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

141 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA and IIB, November 2021.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Chain-of-Custody Record

Laboratory: Alpha

Laboratory Job # (Lab use only) L2408101

GEI Consultants
400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000

Project Information

Project Name: Tufts St

Project Location: Somerville, MA

Project Number: 045163

Project Manager: Chris Coner

Send Report to: cconer@geiconsultants.com
labdata@geiconsultants.com

MCP PRESUMPTIVE CERTAINTY AND MCP ANALYTICAL METHODS REQUIRED: (YES) NO

STATE AND FEDERAL REGULATORY REQUIREMENTS/REPORT LIMITS

State/Federal Program: (MA) 401WQC Other _____ NH RI CT NY ME

MA MCP Criteria are Method 1 S-1 and (GW-2/GW-3). Circle if GW-1 is required.

Preservative: MeOH/DI H2O | None

Analysis: VOCs (8260) | % Solids

Sample Handling

Samples Field Filtered: YES NO (NA)

Sampled Shipped With Ice: (YES) NO

Lab Sample Number	GEI Sample ID	Collection Date	Collection Time	Matrix	No. of Bottles	Sampler(s) Initials	VOCs (8260)	% Solids	Sample Specific Remarks
08101-01	50TUFT-B101(0-1)	2/12/2024	8:30	SO	4	NMT	X	X	
02	50TUFT-B101(1-3)	2/12/2024	8:31	SO	4	NMT	X	X	
03	50TUFT-B101(3-5)	2/12/2024	8:32	SO	4	NMT	X	X	
04	50TUFT-B102(0-1)	2/12/2024	9:00	SO	4	NMT	X	X	
05	50TUFT-B102(1-3)	2/12/2024	9:01	SO	4	NMT	X	X	
06	50TUFT-B103(0-1)	2/12/2024	9:30	SO	4	NMT	X	X	
07	50TUFT-B103(1-3)	2/12/2024	9:31	SO	4	NMT	X	X	
08	50TUFT-B103(3-5)	2/12/2024	9:32	SO	4	NMT	X	X	
09	50TUFT-B104(0-1)	2/12/2024	10:00	SO	4	NMT	X	X	
10	50TUFT-B104(1-3)	2/12/2024	10:01	SO	4	NMT	X	X	
11	50TUFT-B104(3-5)	2/12/2024	10:02	SO	4	NMT	X	X	
12	50TUFT-B105(0-1)	2/12/2024	11:00	SO	4	NMT	X	X	

	Relinquished by sampler: (signature)	Date	Time	Received by: (signature)
1.	Nicholas Truccolo	2/12/2024	12:45	1. GEI Sample Fridge
2.	GEI Sample Fridge	2/14/24	1200	2.
3.		2/14/24	1200	3. 2/14 1200
4.		12/14/	16:15	4.
5.				5.

Turnaround Time (Business days):

Standard TAT X 4-Day ____ 3-Day ____
2-Day ____ 1-Day ____ Other ____

Before submitting rush turnaround samples, you **must** notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

VOAs frozen on 2/12/2024

Sample Matrix Abbreviations: SO = Soil GW = Groundwater SW = Surface Water SD = Sediment CO = Concrete PC = Paint Chip CLK = Caulk

Chain-of-Custody Record

Laboratory: Alpha

Laboratory Job # (Lab use only) L2408101

GEI Consultants
400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000

Project Information

Project Name: Tufts St
Project Location: Somerville, MA
Project Number: 045163
Project Manager: Chris Coner

Send Report to: cconer@geiconsultants.com
labdata@geiconsultants.com

Preservative

MeOH:DI H2O	None								

Analysis

VOCs (8260)	% Solids								

Sample Handling

Samples Field Filtered: YES NO (NA)

Sampled Shipped With Ice: (YES) NO

MCP PRESUMPTIVE CERTAINTY AND MCP ANALYTICAL METHODS REQUIRED: (YES) NO

STATE AND FEDERAL REGULATORY REQUIREMENTS/REPORT LIMITS

State/Federal Program: (MA) 401WQC Other _____ NH RI CT NY ME

MA MCP Criteria are Method 1 S-1 and GW-2/GW-3. Circle if GW-1 is required.

Lab Sample Number	GEI Sample ID	Collection Date	Collection Time	Matrix	No. of Bottles	Sampler(s) Initials	VOCs (8260)	% Solids	Sample Specific Remarks
08101-13	50TUFT-B105(1-3)	2/12/2024	11:01	SO	4	NMT	X	X	

Relinquished by sampler: (signature)	Date:	Time:	Received by: (signature)
1. Nicholas Fuoccolo	2/12/2024	12:45	1. GEI Sample Fridge
Relinquished by sampler: (signature)	Date:	Time:	Received by: (signature)
2. GEI Sample Fridge	2/14/24	1200	2.
Relinquished by: (signature)	Date:	Time:	Received by: (signature)
3.	2/14/24	1207	3. 2/14/24 12:4[illegible]
Relinquished by: (signature)	Date:	Time:	Received by: (signature)
4.	2/14/24	1415	4.
Relinquished by: (signature)	Date:	Time:	Received by: (signature)
5.			5.

Turnaround Time (Business days):

Standard TAT X 4-Day ____ 3-Day ____
2-Day ____ 1-Day ____ Other ____

Before submitting rush turnaround samples, you **must** notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

VOAs frozen on 2/12/2024

Sample Matrix Abbreviations: SO = Soil GW = Groundwater SW = Surface Water SD = Sediment CO = Concrete PC = Paint Chip CLK = Caulk

Method Blank Summary
Form 4
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Lab Sample ID	: WG1886042-5	**Lab File ID**	: V00240215A06
Instrument ID	: VOA100		
Matrix	: SOIL	**Analysis Date**	: 02/15/24 13:52

Client Sample No.	Lab Sample ID	Analysis Date
WG1886042-3LCS	WG1886042-3	02/15/24 11:51
WG1886042-4LCSD	WG1886042-4	02/15/24 12:22
50TUFT-B103(1-3)	L2408101-07	02/15/24 20:26
50TUFT-B105(0-1)	L2408101-12	02/15/24 20:57

Method Blank Summary
Form 4
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Lab Sample ID	: WG1886062-5	**Lab File ID**	: V00240215A06
Instrument ID	: VOA100		
Matrix	: SOIL	**Analysis Date**	: 02/15/24 13:52

Client Sample No.	Lab Sample ID	Analysis Date
WG1886062-3LCS	WG1886062-3	02/15/24 11:51
WG1886062-4LCSD	WG1886062-4	02/15/24 12:22
50TUFT-B101(0-1)	L2408101-01	02/15/24 15:23
50TUFT-B101(1-3)	L2408101-02	02/15/24 15:54
50TUFT-B101(3-5)	L2408101-03	02/15/24 16:24
50TUFT-B102(0-1)	L2408101-04	02/15/24 16:54
50TUFT-B102(1-3)	L2408101-05	02/15/24 17:25
50TUFT-B103(3-5)	L2408101-08	02/15/24 17:55
50TUFT-B104(0-1)	L2408101-09	02/15/24 18:25
50TUFT-B104(1-3)	L2408101-10	02/15/24 18:56
50TUFT-B104(3-5)	L2408101-11	02/15/24 19:26
50TUFT-B105(1-3)	L2408101-13	02/15/24 19:56

Method Blank Summary
Form 4
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Lab Sample ID	: WG1887347-5	**Lab File ID**	: V23240220A05
Instrument ID	: VOA123		
Matrix	: SOIL	**Analysis Date**	: 02/20/24 10:26

Client Sample No.	Lab Sample ID	Analysis Date
WG1887347-3LCS	WG1887347-3	02/20/24 08:43
WG1887347-4LCSD	WG1887347-4	02/20/24 09:09
50TUFT-B103(0-1)	L2408101-06	02/20/24 14:19

Method Blank Summary
Form 4
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Lab Sample ID	: WG1887734-5	**Lab File ID**	: V23240221A05
Instrument ID	: VOA123		
Matrix	: SOIL	**Analysis Date**	: 02/21/24 09:56

Client Sample No.	Lab Sample ID	Analysis Date
WG1887734-3LCS	WG1887734-3	02/21/24 08:39
WG1887734-4LCSD	WG1887734-4	02/21/24 09:05
50TUFT-B103(0-1)	L2408101-06D	02/21/24 12:25

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		Lab Number	: L2408101	
Project Name	: TUFTS STREET		Project Number	: 045163	
Instrument ID	: VOA100		Calibration Date	: 02/15/24 11:51	
Lab File ID	: V00240215A02		Init. Calib. Date(s)	: 02/07/24	02/08/24
Sample No	: WG1886062-2		Init. Calib. Times	: 20:14	01:16
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	159	0
Dichlorodifluoromethane	0.319	0.199	-	37.6*	20	106	0
Chloromethane	0.487	0.328	-	32.6*	20	105	0
Vinyl chloride	0.371	0.265	-	28.6*	20	113	0
Bromomethane	0.176	0.129	-	26.7*	20	118	0
Chloroethane	0.187	0.145	-	22.5*	20	117	0
Trichlorofluoromethane	0.338	0.247	-	26.9*	20	125	0
Ethyl ether	0.105	0.091	-	13.3	20	130	0
1,1-Dichloroethene	40	27.291	-	31.8*	20	127	0
Carbon disulfide	0.84	0.567	-	32.5*	20	122	0
Methylene chloride	0.23	0.178	-	22.6*	20	121	0
Acetone	0.086	0.056	-	34.9*	20	110	0
trans-1,2-Dichloroethene	0.224	0.179	-	20.1*	20	124	0
Methyl tert-butyl ether	0.574	0.494	-	13.9	20	131	0
Diisopropyl ether	1.101	0.913	-	17.1	20	123	0
1,1-Dichloroethane	0.55	0.445	-	19.1	20	122	0
Ethyl tert-butyl ether	0.911	0.825	-	9.4	20	133	0
cis-1,2-Dichloroethene	0.267	0.223	-	16.5	20	129	0
2,2-Dichloropropane	0.344	0.298	-	13.4	20	139	0
Bromochloromethane	0.125	0.108	-	13.6	20	131	0
Chloroform	0.431	0.364	-	15.5	20	128	0
Carbon tetrachloride	40	29.31	-	26.7*	20	139	0
Tetrahydrofuran	0.09	0.059	-	34.4*	20	114	0
Dibromofluoromethane	0.275	0.25	-	9.1	20	142	0
1,1,1-Trichloroethane	0.352	0.302	-	14.2	20	135	0
2-Butanone	0.125	0.089	-	28.8*	20	118	0
1,1-Dichloropropene	0.307	0.269	-	12.4	20	138	0
Benzene	0.934	0.783	-	16.2	20	127	0
tert-Amyl methyl ether	0.606	0.567	-	6.4	20	141	0
1,2-Dichloroethane-d4	0.301	0.27	-	10.3	20	146	0
1,2-Dichloroethane	0.342	0.287	-	16.1	20	130	0
Trichloroethene	0.242	0.208	-	14	20	138	0
Dibromomethane	0.137	0.118	-	13.9	20	128	0
1,2-Dichloropropane	0.302	0.255	-	15.6	20	126	0
Bromodichloromethane	0.308	0.267*	-	13.3	20	126	0
1,4-Dioxane	0.00217	0.00189*	-	12.9	20	123	0
cis-1,3-Dichloropropene	0.362	0.333	-	8	20	130	0
Chlorobenzene-d5	1	1	-	0	20	155	0
Toluene-d8	1.383	1.273	-	8	20	142	0
Toluene	0.781	0.659	-	15.6	20	128	0
4-Methyl-2-pentanone	0.12	0.102	-	15	20	123	0
Tetrachloroethene	0.325	0.297	-	8.6	20	140	0
trans-1,3-Dichloropropene	0.418	0.384	-	8.1	20	133	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		**Lab Number**	: L2408101	
Project Name	: TUFTS STREET		**Project Number**	: 045163	
Instrument ID	: VOA100		**Calibration Date**	: 02/15/24 11:51	
Lab File ID	: V00240215A02		**Init. Calib. Date(s)**	: 02/07/24	02/08/24
Sample No	: WG1886062-2		**Init. Calib. Times**	: 20:14	01:16
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,1,2-Trichloroethane	0.208	0.179*	-	13.9	20	129	0
Chlorodibromomethane	0.31	0.28	-	9.7	20	131	0
1,3-Dichloropropane	0.436	0.375	-	14	20	129	0
1,2-Dibromoethane	0.252	0.223	-	11.5	20	130	0
2-Hexanone	0.224	0.174	-	22.3*	20	118	0
Chlorobenzene	0.884	0.756	-	14.5	20	129	0
Ethylbenzene	1.461	1.258	-	13.9	20	132	0
1,1,1,2-Tetrachloroethane	0.315	0.281	-	10.8	20	128	0
p/m Xylene	0.563	0.498	-	11.5	20	132	0
o Xylene	0.551	0.484	-	12.2	20	129	0
Styrene	0.901	0.81	-	10.1	20	130	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	152	0
Bromoform	0.373	0.333	-	10.7	20	131	0
Isopropylbenzene	2.707	2.418	-	10.7	20	134	0
4-Bromofluorobenzene	0.905	0.852	-	5.9	20	144	0
Bromobenzene	0.701	0.621	-	11.4	20	131	0
n-Propylbenzene	3.172	2.808	-	11.5	20	135	0
1,1,2,2-Tetrachloroethane	0.592	0.491	-	17.1	20	124	0
2-Chlorotoluene	1.899	1.662	-	12.5	20	131	0
1,3,5-Trimethylbenzene	2.325	2.087	-	10.2	20	137	0
1,2,3-Trichloropropane	0.478	0.394	-	17.6	20	126	0
4-Chlorotoluene	1.944	1.719	-	11.6	20	136	0
tert-Butylbenzene	2.015	1.79	-	11.2	20	138	0
1,2,4-Trimethylbenzene	2.268	2.039	-	10.1	20	136	0
sec-Butylbenzene	2.967	2.653	-	10.6	20	139	0
p-Isopropyltoluene	2.612	2.361	-	9.6	20	141	0
1,3-Dichlorobenzene	1.387	1.219	-	12.1	20	131	0
1,4-Dichlorobenzene	1.4	1.222	-	12.7	20	132	0
n-Butylbenzene	2.247	2.037	-	9.3	20	137	0
1,2-Dichlorobenzene	1.285	1.136	-	11.6	20	129	0
1,2-Dibromo-3-chloropropan	0.111	0.091	-	18	20	118	0
Hexachlorobutadiene	0.494	0.418	-	15.4	20	139	0
1,2,4-Trichlorobenzene	0.905	0.847	-	6.4	20	140	0
Naphthalene	2.069	1.829	-	11.6	20	127	0
1,2,3-Trichlorobenzene	0.847	0.778	-	8.1	20	135	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Instrument ID	: VOA100	**Calibration Date**	: 02/15/24 11:51
Lab File ID	: V00240215A02	**Init. Calib. Date(s)**	: 02/07/24 02/08/24
Sample No	: WG1886042-2	**Init. Calib. Times**	: 20:14 01:16
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	159	0
Dichlorodifluoromethane	0.319	0.199	-	37.6*	20	106	0
Chloromethane	0.487	0.328	-	32.6*	20	105	0
Vinyl chloride	0.371	0.265	-	28.6*	20	113	0
Bromomethane	0.176	0.129	-	26.7*	20	118	0
Chloroethane	0.187	0.145	-	22.5*	20	117	0
Trichlorofluoromethane	0.338	0.247	-	26.9*	20	125	0
Ethyl ether	0.105	0.091	-	13.3	20	130	0
1,1-Dichloroethene	40	27.291	-	31.8*	20	127	0
Carbon disulfide	0.84	0.567	-	32.5*	20	122	0
Methylene chloride	0.23	0.178	-	22.6*	20	121	0
Acetone	0.086	0.056	-	34.9*	20	110	0
trans-1,2-Dichloroethene	0.224	0.179	-	20.1*	20	124	0
Methyl tert-butyl ether	0.574	0.494	-	13.9	20	131	0
Diisopropyl ether	1.101	0.913	-	17.1	20	123	0
1,1-Dichloroethane	0.55	0.445	-	19.1	20	122	0
Ethyl tert-butyl ether	0.911	0.825	-	9.4	20	133	0
cis-1,2-Dichloroethene	0.267	0.223	-	16.5	20	129	0
2,2-Dichloropropane	0.344	0.298	-	13.4	20	139	0
Bromochloromethane	0.125	0.108	-	13.6	20	131	0
Chloroform	0.431	0.364	-	15.5	20	128	0
Carbon tetrachloride	40	29.31	-	26.7*	20	139	0
Tetrahydrofuran	0.09	0.059	-	34.4*	20	114	0
Dibromofluoromethane	0.275	0.25	-	9.1	20	142	0
1,1,1-Trichloroethane	0.352	0.302	-	14.2	20	135	0
2-Butanone	0.125	0.089	-	28.8*	20	118	0
1,1-Dichloropropene	0.307	0.269	-	12.4	20	138	0
Benzene	0.934	0.783	-	16.2	20	127	0
tert-Amyl methyl ether	0.606	0.567	-	6.4	20	141	0
1,2-Dichloroethane-d4	0.301	0.27	-	10.3	20	146	0
1,2-Dichloroethane	0.342	0.287	-	16.1	20	130	0
Trichloroethene	0.242	0.208	-	14	20	138	0
Dibromomethane	0.137	0.118	-	13.9	20	128	0
1,2-Dichloropropane	0.302	0.255	-	15.6	20	126	0
Bromodichloromethane	0.308	0.267*	-	13.3	20	126	0
1,4-Dioxane	0.00217	0.00189*	-	12.9	20	123	0
cis-1,3-Dichloropropene	0.362	0.333	-	8	20	130	0
Chlorobenzene-d5	1	1	-	0	20	155	0
Toluene-d8	1.383	1.273	-	8	20	142	0
Toluene	0.781	0.659	-	15.6	20	128	0
4-Methyl-2-pentanone	0.12	0.102	-	15	20	123	0
Tetrachloroethene	0.325	0.297	-	8.6	20	140	0
trans-1,3-Dichloropropene	0.418	0.384	-	8.1	20	133	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Instrument ID	: VOA100	**Calibration Date**	: 02/15/24 11:51
Lab File ID	: V00240215A02	**Init. Calib. Date(s)**	: 02/07/24 02/08/24
Sample No	: WG1886042-2	**Init. Calib. Times**	: 20:14 01:16
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,1,2-Trichloroethane	0.208	0.179*	-	13.9	20	129	0
Chlorodibromomethane	0.31	0.28	-	9.7	20	131	0
1,3-Dichloropropane	0.436	0.375	-	14	20	129	0
1,2-Dibromoethane	0.252	0.223	-	11.5	20	130	0
2-Hexanone	0.224	0.174	-	22.3*	20	118	0
Chlorobenzene	0.884	0.756	-	14.5	20	129	0
Ethylbenzene	1.461	1.258	-	13.9	20	132	0
1,1,1,2-Tetrachloroethane	0.315	0.281	-	10.8	20	128	0
p/m Xylene	0.563	0.498	-	11.5	20	132	0
o Xylene	0.551	0.484	-	12.2	20	129	0
Styrene	0.901	0.81	-	10.1	20	130	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	152	0
Bromoform	0.373	0.333	-	10.7	20	131	0
Isopropylbenzene	2.707	2.418	-	10.7	20	134	0
4-Bromofluorobenzene	0.905	0.852	-	5.9	20	144	0
Bromobenzene	0.701	0.621	-	11.4	20	131	0
n-Propylbenzene	3.172	2.808	-	11.5	20	135	0
1,1,2,2-Tetrachloroethane	0.592	0.491	-	17.1	20	124	0
2-Chlorotoluene	1.899	1.662	-	12.5	20	131	0
1,3,5-Trimethylbenzene	2.325	2.087	-	10.2	20	137	0
1,2,3-Trichloropropane	0.478	0.394	-	17.6	20	126	0
4-Chlorotoluene	1.944	1.719	-	11.6	20	136	0
tert-Butylbenzene	2.015	1.79	-	11.2	20	138	0
1,2,4-Trimethylbenzene	2.268	2.039	-	10.1	20	136	0
sec-Butylbenzene	2.967	2.653	-	10.6	20	139	0
p-Isopropyltoluene	2.612	2.361	-	9.6	20	141	0
1,3-Dichlorobenzene	1.387	1.219	-	12.1	20	131	0
1,4-Dichlorobenzene	1.4	1.222	-	12.7	20	132	0
n-Butylbenzene	2.247	2.037	-	9.3	20	137	0
1,2-Dichlorobenzene	1.285	1.136	-	11.6	20	129	0
1,2-Dibromo-3-chloropropan	0.111	0.091	-	18	20	118	0
Hexachlorobutadiene	0.494	0.418	-	15.4	20	139	0
1,2,4-Trichlorobenzene	0.905	0.847	-	6.4	20	140	0
Naphthalene	2.069	1.829	-	11.6	20	127	0
1,2,3-Trichlorobenzene	0.847	0.778	-	8.1	20	135	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Instrument ID	: VOA123	**Calibration Date**	: 02/20/24 08:43
Lab File ID	: V23240220A01	**Init. Calib. Date(s)**	: 02/07/24 02/08/24
Sample No	: WG1887347-2	**Init. Calib. Times**	: 20:15 00:33
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	110	0
Dichlorodifluoromethane	0.309	0.151	-	51.1*	20	59	0
Chloromethane	0.428	0.293	-	31.5*	20	77	0
Vinyl chloride	40	32.022	-	19.9	20	100	0
Bromomethane	0.156	0.187	-	-19.9	20	140	0
Chloroethane	0.18	0.176	-	2.2	20	112	0
Trichlorofluoromethane	0.304	0.343	-	-12.8	20	135	0
Ethyl ether	0.14	0.124	-	11.4	20	98	0
1,1-Dichloroethene	0.224	0.246	-	-9.8	20	126	0
Carbon disulfide	0.855	0.83	-	2.9	20	115	0
Methylene chloride	0.302	0.288	-	4.6	20	108	0
Acetone	40	27.01	-	32.5*	20	78	0
trans-1,2-Dichloroethene	0.272	0.293	-	-7.7	20	121	0
Methyl tert-butyl ether	0.756	0.645	-	14.7	20	94	0
Diisopropyl ether	1.212	1.026	-	15.3	20	92	0
1,1-Dichloroethane	0.556	0.541	-	2.7	20	107	0
Ethyl tert-butyl ether	1.027	0.898	-	12.6	20	95	0
cis-1,2-Dichloroethene	0.318	0.323	-	-1.6	20	111	0
2,2-Dichloropropane	0.387	0.412	-	-6.5	20	120	0
Bromochloromethane	0.157	0.153	-	2.5	20	107	0
Chloroform	0.512	0.502	-	2	20	108	0
Carbon tetrachloride	40	40.218	-	-0.5	20	131	0
Tetrahydrofuran	0.098	0.057	-	41.8*	20	72	0
Dibromofluoromethane	0.262	0.251	-	4.2	20	106	0
1,1,1-Trichloroethane	0.397	0.45	-	-13.4	20	127	0
2-Butanone	0.133	0.082	-	38.3*	20	71	0
1,1-Dichloropropene	40	42.625	-	-6.6	20	127	0
Benzene	1.072	1.105	-	-3.1	20	113	0
tert-Amyl methyl ether	0.792	0.688	-	13.1	20	95	0
1,2-Dichloroethane-d4	0.27	0.226	-	16.3	20	94	0
1,2-Dichloroethane	0.394	0.339	-	14	20	94	0
Trichloroethene	0.28	0.309	-	-10.4	20	125	0
Dibromomethane	0.174	0.155	-	10.9	20	98	0
1,2-Dichloropropane	40	36.066	-	9.8	20	102	0
Bromodichloromethane	0.397	0.37	-	6.8	20	103	0
1,4-Dioxane	0.00235	0.0018*	-	23.4*	20	82	0
cis-1,3-Dichloropropene	0.451	0.431	-	4.4	20	100	0
Chlorobenzene-d5	1	1	-	0	20	113	0
Toluene-d8	1.396	1.279	-	8.4	20	103	0
Toluene	0.932	0.958	-	-2.8	20	118	0
4-Methyl-2-pentanone	0.138	0.096	-	30.4*	20	79	0
Tetrachloroethene	40	44.318	-	-10.8	20	145	0
trans-1,3-Dichloropropene	0.54	0.485	-	10.2	20	97	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Instrument ID	: VOA123	**Calibration Date**	: 02/20/24 08:43
Lab File ID	: V23240220A01	**Init. Calib. Date(s)**	: 02/07/24 02/08/24
Sample No	: WG1887347-2	**Init. Calib. Times**	: 20:15 00:33
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,1,2-Trichloroethane	0.275	0.241	-	12.4	20	98	0
Chlorodibromomethane	0.395	0.379	-	4.1	20	104	0
1,3-Dichloropropane	0.545	0.481	-	11.7	20	98	0
1,2-Dibromoethane	0.319	0.293	-	8.2	20	99	0
2-Hexanone	0.252	0.16	-	36.5*	20	70	0
Chlorobenzene	1.067	1.103	-	-3.4	20	115	0
Ethylbenzene	1.731	1.809	-	-4.5	20	120	0
1,1,1,2-Tetrachloroethane	0.398	0.407	-	-2.3	20	111	0
p/m Xylene	0.662	0.726	-	-9.7	20	123	0
o Xylene	0.672	0.701	-	-4.3	20	117	0
Styrene	1.131	1.16	-	-2.6	20	111	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	118	0
Bromoform	0.48	0.417	-	13.1	20	99	0
Isopropylbenzene	3.164	3.336	-	-5.4	20	127	0
4-Bromofluorobenzene	0.931	0.808	-	13.2	20	102	0
Bromobenzene	0.906	0.896	-	1.1	20	115	0
n-Propylbenzene	3.676	3.809	-	-3.6	20	124	0
1,1,2,2-Tetrachloroethane	0.754	0.574	-	23.9*	20	89	0
2-Chlorotoluene	2.402	2.285	-	4.9	20	112	0
1,3,5-Trimethylbenzene	2.818	2.87	-	-1.8	20	122	0
1,2,3-Trichloropropane	0.583	0.442	-	24.2*	20	89	0
4-Chlorotoluene	2.419	2.368	-	2.1	20	115	0
tert-Butylbenzene	2.348	2.51	-	-6.9	20	129	0
1,2,4-Trimethylbenzene	2.842	2.822	-	0.7	20	118	0
sec-Butylbenzene	3.386	3.668	-	-8.3	20	131	0
p-Isopropyltoluene	3.043	3.301	-	-8.5	20	130	0
1,3-Dichlorobenzene	1.69	1.756	-	-3.9	20	122	0
1,4-Dichlorobenzene	1.71	1.758	-	-2.8	20	121	0
n-Butylbenzene	2.586	2.779	-	-7.5	20	131	0
1,2-Dichlorobenzene	1.614	1.609	-	0.3	20	116	0
1,2-Dibromo-3-chloropropan	0.129	0.095	-	26.4*	20	85	0
Hexachlorobutadiene	0.659	0.758	-	-15	20	146	0
1,2,4-Trichlorobenzene	1.16	1.263	-	-8.9	20	127	0
Naphthalene	2.342	2.227	-	4.9	20	109	0
1,2,3-Trichlorobenzene	1.043	1.076	-	-3.2	20	120	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		Lab Number	: L2408101	
Project Name	: TUFTS STREET		Project Number	: 045163	
Instrument ID	: VOA123		Calibration Date	: 02/21/24 08:39	
Lab File ID	: V23240221A02		Init. Calib. Date(s)	: 02/07/24	02/08/24
Sample No	: WG1887734-2		Init. Calib. Times	: 20:15	00:33
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	105	0
Dichlorodifluoromethane	0.309	0.127	-	58.9*	20	47	0
Chloromethane	0.428	0.282	-	34.1*	20	71	0
Vinyl chloride	40	30.093	-	24.8*	20	89	0
Bromomethane	0.156	0.169	-	-8.3	20	121	0
Chloroethane	0.18	0.171	-	5	20	103	0
Trichlorofluoromethane	0.304	0.321	-	-5.6	20	120	0
Ethyl ether	0.14	0.127	-	9.3	20	96	0
1,1-Dichloroethene	0.224	0.242	-	-8	20	118	0
Carbon disulfide	0.855	0.821	-	4	20	108	0
Freon-113	0.244	0.242	-	0.8	20	120	0
Acrolein	0.044	0.033	-	25*	20	84	0
Methylene chloride	0.302	0.291	-	3.6	20	104	0
Acetone	40	30.718	-	23.2*	20	83	0
trans-1,2-Dichloroethene	0.272	0.293	-	-7.7	20	115	0
Methyl acetate	0.2	0.145	-	27.5*	20	78	0
Methyl tert-butyl ether	0.756	0.667	-	11.8	20	93	0
tert-Butyl alcohol	0.029	0.02	-	31*	20	76	0
Diisopropyl ether	1.212	1.045	-	13.8	20	89	0
1,1-Dichloroethane	0.556	0.543	-	2.3	20	102	0
Halothane	0.203	0.23	-	-13.3	20	122	0
Acrylonitrile	0.09	0.068	-	24.4*	20	82	0
Ethyl tert-butyl ether	1.027	0.919	-	10.5	20	93	0
Vinyl acetate	0.698	0.603	-	13.6	20	86	0
cis-1,2-Dichloroethene	0.318	0.325	-	-2.2	20	107	0
2,2-Dichloropropane	0.387	0.405	-	-4.7	20	113	0
Bromochloromethane	0.157	0.154	-	1.9	20	103	0
Cyclohexane	0.505	0.476	-	5.7	20	113	0
Chloroform	0.512	0.505	-	1.4	20	104	0
Ethyl acetate	0.297	0.221	-	25.6*	20	78	0
Carbon tetrachloride	40	39.44	-	1.4	20	122	0
Tetrahydrofuran	0.098	0.062	-	36.7*	20	75	0
Dibromofluoromethane	0.262	0.252	-	3.8	20	101	0
1,1,1-Trichloroethane	0.397	0.443	-	-11.6	20	119	0
2-Butanone	0.133	0.09	-	32.3*	20	74	0
1,1-Dichloropropene	40	41.608	-	-4	20	118	0
Benzene	1.072	1.105	-	-3.1	20	107	0
tert-Amyl methyl ether	0.792	0.706	-	10.9	20	93	0
1,2-Dichloroethane-d4	0.27	0.226	-	16.3	20	89	0
1,2-Dichloroethane	0.394	0.347	-	11.9	20	92	0
Methyl cyclohexane	0.456	0.44	-	3.5	20	120	0
Trichloroethene	0.28	0.302	-	-7.9	20	116	0
Dibromomethane	0.174	0.16	-	8	20	96	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Instrument ID	: VOA123	**Calibration Date**	: 02/21/24 08:39
Lab File ID	: V23240221A02	**Init. Calib. Date(s)**	: 02/07/24 02/08/24
Sample No	: WG1887734-2	**Init. Calib. Times**	: 20:15 00:33
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	40	36.624	-	8.4	20	98	0
Bromodichloromethane	0.397	0.382	-	3.8	20	101	0
1,4-Dioxane	0.00235	0.00213*	-	9.4	20	93	0
cis-1,3-Dichloropropene	0.451	0.438	-	2.9	20	97	0
Chlorobenzene-d5	1	1	-	0	20	109	0
Toluene-d8	1.396	1.265	-	9.4	20	99	0
Toluene	0.932	0.948	-	-1.7	20	113	0
4-Methyl-2-pentanone	0.138	0.101	-	26.8*	20	80	0
Tetrachloroethene	40	43.072	-	-7.7	20	136	0
trans-1,3-Dichloropropene	0.54	0.494	-	8.5	20	95	0
Ethyl methacrylate	0.412	0.338	-	18	20	88	0
1,1,2-Trichloroethane	0.275	0.247	-	10.2	20	97	0
Chlorodibromomethane	0.395	0.388	-	1.8	20	102	0
1,3-Dichloropropane	0.545	0.49	-	10.1	20	96	0
1,2-Dibromoethane	0.319	0.303	-	5	20	99	0
2-Hexanone	0.252	0.174	-	31*	20	73	0
Chlorobenzene	1.067	1.101	-	-3.2	20	111	0
Ethylbenzene	1.731	1.82	-	-5.1	20	117	0
1,1,1,2-Tetrachloroethane	0.398	0.414	-	-4	20	109	0
p/m Xylene	0.662	0.723	-	-9.2	20	118	0
o Xylene	0.672	0.701	-	-4.3	20	113	0
Styrene	1.131	1.144	-	-1.1	20	106	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	114	0
Bromoform	0.48	0.451	-	6	20	103	0
Isopropylbenzene	3.164	3.309	-	-4.6	20	122	0
4-Bromofluorobenzene	0.931	0.788	-	15.4	20	96	0
Bromobenzene	0.906	0.913	-	-0.8	20	113	0
n-Propylbenzene	3.676	3.856	-	-4.9	20	122	0
1,4-Dichlorobutane	1.133	0.895	-	21*	20	88	0
1,1,2,2-Tetrachloroethane	0.754	0.636	-	15.6	20	96	0
4-Ethyltoluene	3.23	3.405	-	-5.4	20	122	0
2-Chlorotoluene	2.402	2.275	-	5.3	20	108	0
1,3,5-Trimethylbenzene	2.818	2.899	-	-2.9	20	119	0
1,2,3-Trichloropropane	0.583	0.473	-	18.9	20	92	0
trans-1,4-Dichloro-2-buten	0.248	0.185	-	25.4*	20	84	0
4-Chlorotoluene	2.419	2.399	-	0.8	20	112	0
tert-Butylbenzene	2.348	2.504	-	-6.6	20	125	0
1,2,4-Trimethylbenzene	2.842	2.858	-	-0.6	20	115	0
sec-Butylbenzene	3.386	3.645	-	-7.6	20	126	0
p-Isopropyltoluene	3.043	3.318	-	-9	20	127	0
1,3-Dichlorobenzene	1.69	1.794	-	-6.2	20	121	0
1,4-Dichlorobenzene	1.71	1.787	-	-4.5	20	119	0
p-Diethylbenzene	1.89	2.073	-	-9.7	20	128	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Instrument ID	: VOA123	**Calibration Date**	: 02/21/24 08:39
Lab File ID	: V23240221A02	**Init. Calib. Date(s)**	: 02/07/24 02/08/24
Sample No	: WG1887734-2	**Init. Calib. Times**	: 20:15 00:33
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	2.586	2.799	-	-8.2	20	128	0
1,2-Dichlorobenzene	1.614	1.655	-	-2.5	20	115	0
1,2,4,5-Tetramethylbenzene	3.095	3.243	-	-4.8	20	118	0
1,2-Dibromo-3-chloropropan	0.129	0.11	-	14.7	20	96	0
1,3,5-Trichlorobenzene	1.334	1.538	-	-15.3	20	133	0
Hexachlorobutadiene	0.659	0.762	-	-15.6	20	142	0
1,2,4-Trichlorobenzene	1.16	1.318	-	-13.6	20	129	0
Naphthalene	2.342	2.244	-	4.2	20	106	0
1,2,3-Trichlorobenzene	1.043	1.121	-	-7.5	20	121	0

* Value outside of QC limits.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Stephan Landry
Atlas Technical Consultants LLC
10 State St
Suite 100
Woburn, Massachusetts 01801

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JOB DESCRIPTION

Tufts Street Improvement - Somerville, M

JOB NUMBER

620-17450-1

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

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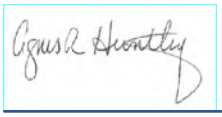

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Authorized for release by
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Definitions/Glossary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-17450-1

Project Location: Tufts Street Improvement - Somerville, M | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-17450-1 through 620-17450-18

Matrices: ☑ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☑	7470/7471 Hg CAM III B ☑	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☑	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☑	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes ☑ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 04/03/2024

Job Narrative
620-17450-1

REVISION
The report being provided is a revision of the original report sent on 3/28/2024. The report (revision 1) is being revised due to Report revised as client needed full list 8270 with low-level PAHs.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/18/2024 3:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C.

GC/MS VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270MCP: The following analytes have been identified, in the reference method and/or via historical data, to be poor and/or erratic performers: Benzidine and Benzoic acid. These analytes may have a %D >50%.

Method 8270MCP: The laboratory control sample (LCS) for preparation batch 620-32927 and analytical batch 620-32951 recovered outside control limits for the following analytes: 4-Chloroaniline, Aniline, Benzidine, Benzoic acid and Pyridine. The affected target analytes recovered within acceptance limits, >10%, per MCP criteria therefore, demonstrates the analytical system had sufficient sensitivity to detect the compounds had they been present. Since the affected target compounds were not detected in the samples, the data have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 6010MCP: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 620-33090 and analytical batch 620-33178 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010MCP: The sample duplicate (DUP) precision for preparation batch 620-33090 and analytical batch 620-33178 was outside control limits. Sample non-homogeneity is suspected.

Method 6010MCP: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 620-33090 and analytical batch 620-33178 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Job ID: 620-17450-1 (Continued) Eurofins New England

General Chemistry
Method 1010A: The Pensky Martens closed cup apparatus is designed to determine the flash point of a liquid sample. The sample submitted could not be mixed well enough to obtain uniform heating. The temperature being measured was that of the material near the top of the cup. The material at the bottom of the cup could have a higher temperature. The temperature reported may not be accurate.

Method Moisture: The sample duplicate (DUP) precision for analytical batch 620-32837 was outside control limits. Sample non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-3 (0-5) — Lab Sample ID: 620-17450-1

No Detections.

Client Sample ID: ATC-3 (5-10) — Lab Sample ID: 620-17450-2

No Detections.

Client Sample ID: ATC-2 (0-5) — Lab Sample ID: 620-17450-3

No Detections.

Client Sample ID: ATC-2 (5-10) — Lab Sample ID: 620-17450-4

No Detections.

Client Sample ID: ATC-1 (0-5) — Lab Sample ID: 620-17450-5

No Detections.

Client Sample ID: ATC-1 (5-10) — Lab Sample ID: 620-17450-6

No Detections.

Client Sample ID: Comp (0-5) — Lab Sample ID: 620-17450-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	28.7		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Anthracene	33.8		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Benzo[a]anthracene	148		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Benzo[a]pyrene	175		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Benzo[b]fluoranthene	179		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Benzo[g,h,i]perylene	136		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Benzo[k]fluoranthene	165		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Chrysene	156		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Dibenz(a,h)anthracene	41.0		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Fluoranthene	256		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Indeno[1,2,3-cd]pyrene	112		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Phenanthrene	102		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Pyrene	259		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Bis(2-ethylhexyl) phthalate	50.8		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
TEPH (C9-C36)	90.2		15.2		mg/Kg	1	☼	8100	Total/NA
Barium	45.9		2.10		mg/Kg	2	☼	6010D	Total/NA
Chromium	13.6	F1	2.10		mg/Kg	2	☼	6010D	Total/NA
Lead	21.0		3.15		mg/Kg	2	☼	6010D	Total/NA
Flashpoint	>184		50.0		Degrees F	1		1010A	Total/NA
Total Organic Carbon	4780	F1	300		mg/Kg	1		9060	Total/NA
pH	8.4				SU	1		9045D	Soluble
Temperature	23.4				Degrees C	1		9045D	Soluble
Specific Conductance	1200		10.0		uS/cm	1		SM 2510B	Soluble

Client Sample ID: Comp (5-10) — Lab Sample ID: 620-17450-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
TEPH (C9-C36)	16.7		14.9		mg/Kg	1	☼	8100	Total/NA
Arsenic	3.60		2.88		mg/Kg	2	☼	6010D	Total/NA
Barium	39.3		1.92		mg/Kg	2	☼	6010D	Total/NA
Chromium	17.4		1.92		mg/Kg	2	☼	6010D	Total/NA
Lead	5.34		2.88		mg/Kg	2	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Comp (5-10) (Continued)
Lab Sample ID: 620-17450-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>170		50.0		Degrees F	1		1010A	Total/NA
Total Organic Carbon	1620		300		mg/Kg	1		9060	Total/NA
pH	7.9				SU	1		9045D	Soluble
Temperature	23.4				Degrees C	1		9045D	Soluble
Specific Conductance	601		10.0		uS/cm	1		SM 2510B	Soluble

Client Sample ID: ATC-8 (0-5)
Lab Sample ID: 620-17450-9

No Detections.

Client Sample ID: ATC-8 (5-10)
Lab Sample ID: 620-17450-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	13.4		4.94		ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: ATC-7 (0-5)
Lab Sample ID: 620-17450-11

No Detections.

Client Sample ID: ATC-7 (5-10)
Lab Sample ID: 620-17450-12

No Detections.

Client Sample ID: ATC-6 (0-5)
Lab Sample ID: 620-17450-13

No Detections.

Client Sample ID: ATC-6 (5-10)
Lab Sample ID: 620-17450-14

No Detections.

Client Sample ID: ATC-4 (0-5)
Lab Sample ID: 620-17450-15

No Detections.

Client Sample ID: ATC-4 (5-10)
Lab Sample ID: 620-17450-16

No Detections.

Client Sample ID: ATC-5 (0-5)
Lab Sample ID: 620-17450-17

No Detections.

Client Sample ID: ATC-5 (5-10)
Lab Sample ID: 620-17450-18

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-3 (0-5)
Date Collected: 03/15/24 09:10
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-1
Matrix: Solid
Percent Solids: 88.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Acetone	ND		98.4		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Acrylonitrile	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Benzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Bromobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Bromochloromethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Bromodichloromethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Bromoform	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Bromomethane	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
2-Butanone (MEK)	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
n-Butylbenzene	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
sec-Butylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
tert-Butylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Carbon disulfide	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Carbon tetrachloride	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Chlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Chloroethane	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Chloroform	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Chloromethane	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
2-Chlorotoluene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
4-Chlorotoluene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2-Dibromo-3-Chloropropane	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Dibromochloromethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2-Dibromoethane (EDB)	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Dibromomethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2-Dichlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,3-Dichlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,4-Dichlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Dichlorodifluoromethane (Freon 12)	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1-Dichloroethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2-Dichloroethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1-Dichloroethene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
cis-1,2-Dichloroethene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
trans-1,2-Dichloroethene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2-Dichloropropane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,3-Dichloropropane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
2,2-Dichloropropane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1-Dichloropropene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
cis-1,3-Dichloropropene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
trans-1,3-Dichloropropene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Ethylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Hexachlorobutadiene	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
2-Hexanone (MBK)	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Isopropylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
4-Isopropyltoluene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Methyl tert-butyl ether	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
4-Methyl-2-pentanone (MIBK)	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Methylene Chloride	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Naphthalene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-3 (0-5)
Lab Sample ID: 620-17450-1
Date Collected: 03/15/24 09:10
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 88.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Styrene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1,1,2-Tetrachloroethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1,2,2-Tetrachloroethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Tetrachloroethene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Toluene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2,3-Trichlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2,4-Trichlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,3,5-Trichlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1,1-Trichloroethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1,2-Trichloroethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Trichloroethene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Trichlorofluoromethane (Freon 11)	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2,3-Trichloropropane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2,4-Trimethylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,3,5-Trimethylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Vinyl chloride	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
m,p-Xylene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
o-Xylene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Tetrahydrofuran	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Ethyl ether	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Tert-amyl methyl ether	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Ethyl tert-butyl ether	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
di-Isopropyl ether	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
tert-Butanol	ND		197		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,4-Dioxane	ND		197		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
trans-1,4-Dichloro-2-butene	ND		49.2		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Ethanol	ND		1970		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,3-Dichloropropene, Total	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Xylenes, Total	ND		29.5		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:08*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:08*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:08*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-3 (5-10)
Date Collected: 03/15/24 09:30
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-2
Matrix: Solid
Percent Solids: 87.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Acetone	ND		51.6		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Acrylonitrile	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Benzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Bromobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Bromochloromethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Bromodichloromethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Bromoform	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Bromomethane	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
2-Butanone (MEK)	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
n-Butylbenzene	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
sec-Butylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
tert-Butylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Carbon disulfide	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Carbon tetrachloride	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Chlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Chloroethane	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Chloroform	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Chloromethane	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
2-Chlorotoluene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
4-Chlorotoluene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2-Dibromo-3-Chloropropane	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Dibromochloromethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2-Dibromoethane (EDB)	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Dibromomethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2-Dichlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,3-Dichlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,4-Dichlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Dichlorodifluoromethane (Freon 12)	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1-Dichloroethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2-Dichloroethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1-Dichloroethene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
cis-1,2-Dichloroethene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
trans-1,2-Dichloroethene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2-Dichloropropane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,3-Dichloropropane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
2,2-Dichloropropane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1-Dichloropropene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
cis-1,3-Dichloropropene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
trans-1,3-Dichloropropene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Ethylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Hexachlorobutadiene	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
2-Hexanone (MBK)	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Isopropylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
4-Isopropyltoluene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Methyl tert-butyl ether	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
4-Methyl-2-pentanone (MIBK)	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Methylene Chloride	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Naphthalene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-3 (5-10)
Date Collected: 03/15/24 09:30
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-2
Matrix: Solid
Percent Solids: 87.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Styrene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1,1,2-Tetrachloroethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1,2,2-Tetrachloroethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Tetrachloroethene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Toluene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2,3-Trichlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2,4-Trichlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,3,5-Trichlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1,1-Trichloroethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1,2-Trichloroethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Trichloroethene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Trichlorofluoromethane (Freon 11)	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2,3-Trichloropropane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2,4-Trimethylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,3,5-Trimethylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Vinyl chloride	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
m,p-Xylene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
o-Xylene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Tetrahydrofuran	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Ethyl ether	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Tert-amyl methyl ether	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Ethyl tert-butyl ether	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
di-Isopropyl ether	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
tert-Butanol	ND		103		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,4-Dioxane	ND		103		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
trans-1,4-Dichloro-2-butene	ND		25.8		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Ethanol	ND		1030		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,3-Dichloropropene, Total	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Xylenes, Total	ND		15.5		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:33*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:33*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:33*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-2 (0-5)
Date Collected: 03/15/24 10:15
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-3
Matrix: Solid
Percent Solids: 90.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Acetone	ND		54.6		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Acrylonitrile	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Benzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Bromobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Bromochloromethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Bromodichloromethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Bromoform	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Bromomethane	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
2-Butanone (MEK)	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
n-Butylbenzene	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
sec-Butylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
tert-Butylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Carbon disulfide	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Carbon tetrachloride	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Chlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Chloroethane	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Chloroform	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Chloromethane	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
2-Chlorotoluene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
4-Chlorotoluene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2-Dibromo-3-Chloropropane	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Dibromochloromethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2-Dibromoethane (EDB)	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Dibromomethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2-Dichlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,3-Dichlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,4-Dichlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Dichlorodifluoromethane (Freon 12)	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1-Dichloroethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2-Dichloroethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1-Dichloroethene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
cis-1,2-Dichloroethene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
trans-1,2-Dichloroethene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2-Dichloropropane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,3-Dichloropropane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
2,2-Dichloropropane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1-Dichloropropene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
cis-1,3-Dichloropropene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
trans-1,3-Dichloropropene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Ethylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Hexachlorobutadiene	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
2-Hexanone (MBK)	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Isopropylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
4-Isopropyltoluene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Methyl tert-butyl ether	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
4-Methyl-2-pentanone (MIBK)	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Methylene Chloride	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Naphthalene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-2 (0-5)
Date Collected: 03/15/24 10:15
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-3
Matrix: Solid
Percent Solids: 90.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Styrene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1,1,2-Tetrachloroethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1,2,2-Tetrachloroethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Tetrachloroethene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Toluene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2,3-Trichlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2,4-Trichlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,3,5-Trichlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1,1-Trichloroethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1,2-Trichloroethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Trichloroethene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Trichlorofluoromethane (Freon 11)	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2,3-Trichloropropane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2,4-Trimethylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,3,5-Trimethylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Vinyl chloride	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
m,p-Xylene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
o-Xylene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Tetrahydrofuran	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Ethyl ether	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Tert-amyl methyl ether	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Ethyl tert-butyl ether	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
di-Isopropyl ether	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
tert-Butanol	ND		109		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,4-Dioxane	ND		109		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
trans-1,4-Dichloro-2-butene	ND		27.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Ethanol	ND		1090		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,3-Dichloropropene, Total	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Xylenes, Total	ND		16.4		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:58*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:58*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:58*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-2 (5-10)
Date Collected: 03/15/24 11:00
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-4
Matrix: Solid
Percent Solids: 77.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Acetone	ND		64.1		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Acrylonitrile	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Benzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Bromobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Bromochloromethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Bromodichloromethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Bromoform	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Bromomethane	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
2-Butanone (MEK)	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
n-Butylbenzene	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
sec-Butylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
tert-Butylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Carbon disulfide	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Carbon tetrachloride	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Chlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Chloroethane	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Chloroform	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Chloromethane	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
2-Chlorotoluene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
4-Chlorotoluene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2-Dibromo-3-Chloropropane	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Dibromochloromethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2-Dibromoethane (EDB)	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Dibromomethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2-Dichlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,3-Dichlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,4-Dichlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Dichlorodifluoromethane (Freon 12)	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1-Dichloroethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2-Dichloroethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1-Dichloroethene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
cis-1,2-Dichloroethene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
trans-1,2-Dichloroethene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2-Dichloropropane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,3-Dichloropropane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
2,2-Dichloropropane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1-Dichloropropene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
cis-1,3-Dichloropropene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
trans-1,3-Dichloropropene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Ethylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Hexachlorobutadiene	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
2-Hexanone (MBK)	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Isopropylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
4-Isopropyltoluene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Methyl tert-butyl ether	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
4-Methyl-2-pentanone (MIBK)	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Methylene Chloride	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Naphthalene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-2 (5-10)
Date Collected: 03/15/24 11:00
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-4
Matrix: Solid
Percent Solids: 77.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Styrene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1,1,2-Tetrachloroethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1,2,2-Tetrachloroethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Tetrachloroethene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Toluene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2,3-Trichlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2,4-Trichlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,3,5-Trichlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1,1-Trichloroethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1,2-Trichloroethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Trichloroethene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Trichlorofluoromethane (Freon 11)	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2,3-Trichloropropane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2,4-Trimethylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,3,5-Trimethylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Vinyl chloride	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
m,p-Xylene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
o-Xylene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Tetrahydrofuran	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Ethyl ether	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Tert-amyl methyl ether	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Ethyl tert-butyl ether	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
di-Isopropyl ether	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
tert-Butanol	ND		128		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,4-Dioxane	ND		128		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
trans-1,4-Dichloro-2-butene	ND		32.1		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Ethanol	ND		1280		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,3-Dichloropropene, Total	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Xylenes, Total	ND		19.2		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:23*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:23*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:23*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-1 (0-5)
Date Collected: 03/15/24 11:20
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-5
Matrix: Solid
Percent Solids: 88.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Acetone	ND		46.9		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Acrylonitrile	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Benzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Bromobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Bromochloromethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Bromodichloromethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Bromoform	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Bromomethane	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
2-Butanone (MEK)	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
n-Butylbenzene	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
sec-Butylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
tert-Butylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Carbon disulfide	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Carbon tetrachloride	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Chlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Chloroethane	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Chloroform	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Chloromethane	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
2-Chlorotoluene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
4-Chlorotoluene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2-Dibromo-3-Chloropropane	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Dibromochloromethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2-Dibromoethane (EDB)	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Dibromomethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2-Dichlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,3-Dichlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,4-Dichlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Dichlorodifluoromethane (Freon 12)	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1-Dichloroethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2-Dichloroethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1-Dichloroethene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
cis-1,2-Dichloroethene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
trans-1,2-Dichloroethene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2-Dichloropropane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,3-Dichloropropane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
2,2-Dichloropropane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1-Dichloropropene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
cis-1,3-Dichloropropene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
trans-1,3-Dichloropropene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Ethylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Hexachlorobutadiene	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
2-Hexanone (MBK)	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Isopropylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
4-Isopropyltoluene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Methyl tert-butyl ether	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
4-Methyl-2-pentanone (MIBK)	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Methylene Chloride	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Naphthalene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-1 (0-5)
Lab Sample ID: 620-17450-5
Date Collected: 03/15/24 11:20
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 88.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Styrene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1,1,2-Tetrachloroethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1,2,2-Tetrachloroethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Tetrachloroethene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Toluene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2,3-Trichlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2,4-Trichlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,3,5-Trichlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1,1-Trichloroethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1,2-Trichloroethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Trichloroethene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Trichlorofluoromethane (Freon 11)	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2,3-Trichloropropane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2,4-Trimethylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,3,5-Trimethylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Vinyl chloride	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
m,p-Xylene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
o-Xylene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Tetrahydrofuran	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Ethyl ether	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Tert-amyl methyl ether	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Ethyl tert-butyl ether	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
di-Isopropyl ether	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
tert-Butanol	ND		93.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,4-Dioxane	ND		93.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
trans-1,4-Dichloro-2-butene	ND		23.5		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Ethanol	ND		938		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,3-Dichloropropene, Total	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Xylenes, Total	ND		14.1		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:49*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:49*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:49*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-1 (5-10)
Date Collected: 03/15/24 11:30
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-6
Matrix: Solid
Percent Solids: 91.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Acetone	ND		53.2		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Acrylonitrile	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Benzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Bromobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Bromochloromethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Bromodichloromethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Bromoform	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Bromomethane	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
2-Butanone (MEK)	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
n-Butylbenzene	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
sec-Butylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
tert-Butylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Carbon disulfide	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Carbon tetrachloride	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Chlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Chloroethane	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Chloroform	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Chloromethane	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
2-Chlorotoluene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
4-Chlorotoluene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2-Dibromo-3-Chloropropane	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Dibromochloromethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2-Dibromoethane (EDB)	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Dibromomethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2-Dichlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,3-Dichlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,4-Dichlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Dichlorodifluoromethane (Freon 12)	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1-Dichloroethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2-Dichloroethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1-Dichloroethene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
cis-1,2-Dichloroethene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
trans-1,2-Dichloroethene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2-Dichloropropane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,3-Dichloropropane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
2,2-Dichloropropane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1-Dichloropropene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
cis-1,3-Dichloropropene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
trans-1,3-Dichloropropene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Ethylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Hexachlorobutadiene	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
2-Hexanone (MBK)	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Isopropylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
4-Isopropyltoluene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Methyl tert-butyl ether	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
4-Methyl-2-pentanone (MIBK)	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Methylene Chloride	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Naphthalene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-1 (5-10)
Date Collected: 03/15/24 11:30
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-6
Matrix: Solid
Percent Solids: 91.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Styrene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1,1,2-Tetrachloroethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1,2,2-Tetrachloroethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Tetrachloroethene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Toluene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2,3-Trichlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2,4-Trichlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,3,5-Trichlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1,1-Trichloroethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1,2-Trichloroethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Trichloroethene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Trichlorofluoromethane (Freon 11)	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2,3-Trichloropropane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2,4-Trimethylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,3,5-Trimethylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Vinyl chloride	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
m,p-Xylene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
o-Xylene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Tetrahydrofuran	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Ethyl ether	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Tert-amyl methyl ether	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Ethyl tert-butyl ether	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
di-Isopropyl ether	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
tert-Butanol	ND		106		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,4-Dioxane	ND		106		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
trans-1,4-Dichloro-2-butene	ND		26.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Ethanol	ND		1060		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,3-Dichloropropene, Total	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Xylenes, Total	ND		16.0		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:14*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:14*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:14*	*1*

Client Sample ID: Comp (0-5)
Date Collected: 03/15/24 12:00
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-7
Matrix: Solid
Percent Solids: 87.7

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Acenaphthylene	**28.7**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
1-Methylnaphthalene	ND		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Anthracene	**33.8**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzo[a]anthracene	**148**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzo[a]pyrene	**175**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzo[b]fluoranthene	**179**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzo[g,h,i]perylene	**136**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzo[k]fluoranthene	**165**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Chrysene	**156**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Dibenz(a,h)anthracene	**41.0**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Fluoranthene	**256**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Fluorene	ND		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Indeno[1,2,3-cd]pyrene	**112**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2-Methylnaphthalene	ND		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Naphthalene	ND		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Phenanthrene	**102**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Pyrene	**259**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Bis(2-ethylhexyl) phthalate	**50.8**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*43*		*30 - 130*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
Terphenyl-d14 (Surr)	*76*		*30 - 130*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
2-Fluorobiphenyl (Surr)	*51*		*30 - 130*	*03/21/24 08:36*	*03/21/24 15:49*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
1,2,4-Trichlorobenzene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
1,2-Dichlorobenzene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
1,3-Dichlorobenzene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
1,4-Dichlorobenzene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,4,5-Trichlorophenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,4,6-Trichlorophenol	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,4-Dichlorophenol	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,4-Dimethylphenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,4-Dinitrophenol	ND		733		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,4-Dinitrotoluene	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,6-Dinitrotoluene	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2-Chloronaphthalene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2-Chlorophenol	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2-Methylphenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2-Nitroaniline	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2-Nitrophenol	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
3 & 4 Methylphenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
3,3'-Dichlorobenzidine	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
3-Nitroaniline	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
4,6-Dinitro-2-methylphenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
4-Bromophenyl phenyl ether	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
4-Chloro-3-methylphenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1

Client Sample ID: Comp (0-5)
Lab Sample ID: 620-17450-7
Date Collected: 03/15/24 12:00
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 87.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND	*-	185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
4-Chlorophenyl phenyl ether	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
4-Nitroaniline	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
4-Nitrophenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Acetophenone	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Aniline	ND	*-	366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Azobenzene/Diphenyldiazene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzidine	ND	*-	733		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzoic acid	ND	*-	740		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzyl alcohol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Bis(2-chloroethoxy)methane	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Bis(2-chloroethyl)ether	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
bis (2-chloroisopropyl) ether	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Bis(2-ethylhexyl) phthalate	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Butyl benzyl phthalate	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Carbazole	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Dibenzofuran	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Diethyl phthalate	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Dimethyl phthalate	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Di-n-butyl phthalate	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Di-n-octyl phthalate	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Hexachlorobenzene	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Hexachlorobutadiene	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Hexachlorocyclopentadiene	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Hexachloroethane	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Isophorone	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Nitrobenzene	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
N-Nitrosodimethylamine	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
N-Nitrosodi-n-propylamine	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
N-Nitrosodiphenylamine	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Pentachloronitrobenzene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Pentachlorophenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Phenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Pyridine	ND	*-	366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*50*		*30 - 130*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
2-Fluorophenol (Surr)	*50*		*15 - 110*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
Nitrobenzene-d5 (Surr)	*39*		*30 - 130*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
Phenol-d5 (Surr)	*54*		*15 - 110*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*15 - 110*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
Terphenyl-d14 (Surr)	*76*		*30 - 130*	*03/21/24 08:36*	*03/21/24 15:49*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1221	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1232	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1242	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1248	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1

Client Sample ID: Comp (0-5)
Lab Sample ID: 620-17450-7

Date Collected: 03/15/24 12:00
Matrix: Solid

Date Received: 03/18/24 15:25
Percent Solids: 87.7

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1262	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1260	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1268	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*30 - 150*	*03/19/24 14:48*	*03/21/24 23:56*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*30 - 150*	*03/19/24 14:48*	*03/21/24 23:56*	*1*

Method: SW846 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TEPH (C9-C36)	**90.2**		15.2		mg/Kg	☼	03/19/24 17:07	03/21/24 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*100*		*40 - 140*	*03/19/24 17:07*	*03/21/24 15:35*	*1*
o-Terphenyl (Surr)	*72*		*40 - 140*	*03/19/24 17:07*	*03/21/24 15:35*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	F1	3.15		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2
Barium	**45.9**		2.10		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2
Cadmium	ND		1.05		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2
Chromium	**13.6**	**F1**	2.10		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2
Lead	**21.0**		3.15		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2
Selenium	ND	F1	3.15		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2
Silver	ND	F1	3.15		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0150		mg/L		03/26/24 15:40	03/27/24 13:47	1

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0530		mg/Kg	☼	03/19/24 11:28	03/19/24 15:44	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010A)	**>184**		50.0		Degrees F			03/21/24 10:01	1
Cyanide, Reactive (SW846 9012)	ND		57.7		mg/Kg		03/25/24 08:25	03/25/24 17:06	1
Sulfide, Reactive (SW846 9034)	ND		154		mg/Kg		03/25/24 08:25	03/25/24 12:45	1
Total Organic Carbon (SW846 9060)	**4780**	**F1**	300		mg/Kg			03/21/24 13:08	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**8.4**				SU			03/28/24 11:32	1
Temperature (SW846 9045D)	**23.4**				Degrees C			03/28/24 11:32	1
Specific Conductance (SM 2510B)	**1200**		10.0		uS/cm			03/28/24 11:04	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: Comp (5-10)

Date Collected: 03/15/24 12:15
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-8

Matrix: Solid
Percent Solids: 87.4

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Acenaphthylene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
1-Methylnaphthalene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Anthracene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzo[a]anthracene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzo[a]pyrene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzo[b]fluoranthene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzo[g,h,i]perylene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzo[k]fluoranthene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Chrysene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Dibenz(a,h)anthracene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Fluoranthene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Fluorene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Indeno[1,2,3-cd]pyrene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2-Methylnaphthalene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Naphthalene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Phenanthrene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Pyrene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Bis(2-ethylhexyl) phthalate	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*46*		*30 - 130*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
Terphenyl-d14 (Surr)	*65*		*30 - 130*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
2-Fluorobiphenyl (Surr)	*41*		*30 - 130*	*03/21/24 08:36*	*03/21/24 16:14*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
1,2,4-Trichlorobenzene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
1,2-Dichlorobenzene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
1,3-Dichlorobenzene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
1,4-Dichlorobenzene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,4,5-Trichlorophenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,4,6-Trichlorophenol	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,4-Dichlorophenol	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,4-Dimethylphenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,4-Dinitrophenol	ND		737		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,4-Dinitrotoluene	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,6-Dinitrotoluene	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2-Chloronaphthalene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2-Chlorophenol	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2-Methylphenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2-Nitroaniline	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2-Nitrophenol	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
3 & 4 Methylphenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
3,3'-Dichlorobenzidine	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
3-Nitroaniline	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
4,6-Dinitro-2-methylphenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
4-Bromophenyl phenyl ether	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
4-Chloro-3-methylphenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: Comp (5-10)
Date Collected: 03/15/24 12:15
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-8
Matrix: Solid
Percent Solids: 87.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND	*-	186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
4-Chlorophenyl phenyl ether	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
4-Nitroaniline	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
4-Nitrophenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Acetophenone	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Aniline	ND	*-	368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Azobenzene/Diphenyldiazene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzidine	ND	*-	737		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzoic acid	ND	*-	744		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzyl alcohol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Bis(2-chloroethoxy)methane	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Bis(2-chloroethyl)ether	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
bis (2-chloroisopropyl) ether	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Bis(2-ethylhexyl) phthalate	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Butyl benzyl phthalate	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Carbazole	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Dibenzofuran	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Diethyl phthalate	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Dimethyl phthalate	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Di-n-butyl phthalate	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Di-n-octyl phthalate	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Hexachlorobenzene	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Hexachlorobutadiene	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Hexachlorocyclopentadiene	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Hexachloroethane	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Isophorone	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Nitrobenzene	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
N-Nitrosodimethylamine	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
N-Nitrosodi-n-propylamine	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
N-Nitrosodiphenylamine	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Pentachloronitrobenzene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Pentachlorophenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Phenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Pyridine	ND	*-	368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*41*		*30 - 130*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
2-Fluorophenol (Surr)	*45*		*15 - 110*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
Nitrobenzene-d5 (Surr)	*42*		*30 - 130*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
Phenol-d5 (Surr)	*45*		*15 - 110*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
2,4,6-Tribromophenol (Surr)	*48*		*15 - 110*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
Terphenyl-d14 (Surr)	*65*		*30 - 130*	*03/21/24 08:36*	*03/21/24 16:14*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1221	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1232	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1242	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1248	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1

Client Sample ID: Comp (5-10)
Lab Sample ID: 620-17450-8

Date Collected: 03/15/24 12:15
Matrix: Solid

Date Received: 03/18/24 15:25
Percent Solids: 87.4

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1262	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1260	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1268	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*30 - 150*	*03/19/24 14:48*	*03/22/24 00:14*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*30 - 150*	*03/19/24 14:48*	*03/22/24 00:14*	*1*

Method: SW846 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TEPH (C9-C36)	**16.7**		14.9		mg/Kg	☼	03/19/24 17:07	03/21/24 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*84*		*40 - 140*	*03/19/24 17:07*	*03/21/24 15:57*	*1*
o-Terphenyl (Surr)	*73*		*40 - 140*	*03/19/24 17:07*	*03/21/24 15:57*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.60**		2.88		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2
Barium	**39.3**		1.92		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2
Cadmium	ND		0.961		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2
Chromium	**17.4**		1.92		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2
Lead	**5.34**		2.88		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2
Selenium	ND		2.88		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2
Silver	ND		2.88		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0150		mg/L		03/26/24 15:40	03/27/24 13:23	1

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0512		mg/Kg	☼	03/19/24 11:28	03/19/24 15:46	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010A)	**>170**		50.0		Degrees F			03/21/24 10:01	1
Cyanide, Reactive (SW846 9012)	ND		59.9		mg/Kg		03/25/24 08:25	03/25/24 17:07	1
Sulfide, Reactive (SW846 9034)	ND		160		mg/Kg		03/25/24 08:25	03/25/24 12:45	1
Total Organic Carbon (SW846 9060)	**1620**		300		mg/Kg			03/21/24 13:29	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**7.9**				SU			03/28/24 11:32	1
Temperature (SW846 9045D)	**23.4**				Degrees C			03/28/24 11:32	1
Specific Conductance (SM 2510B)	**601**		10.0		uS/cm			03/28/24 11:04	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-8 (0-5)
Date Collected: 03/14/24 10:00
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-9
Matrix: Solid
Percent Solids: 88.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Acetone	ND		61.9		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Acrylonitrile	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Benzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Bromobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Bromochloromethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Bromodichloromethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Bromoform	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Bromomethane	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
2-Butanone (MEK)	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
n-Butylbenzene	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
sec-Butylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
tert-Butylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Carbon disulfide	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Carbon tetrachloride	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Chlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Chloroethane	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Chloroform	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Chloromethane	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
2-Chlorotoluene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
4-Chlorotoluene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2-Dibromo-3-Chloropropane	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Dibromochloromethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2-Dibromoethane (EDB)	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Dibromomethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2-Dichlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,3-Dichlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,4-Dichlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Dichlorodifluoromethane (Freon 12)	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1-Dichloroethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2-Dichloroethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1-Dichloroethene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
cis-1,2-Dichloroethene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
trans-1,2-Dichloroethene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2-Dichloropropane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,3-Dichloropropane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
2,2-Dichloropropane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1-Dichloropropene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
cis-1,3-Dichloropropene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
trans-1,3-Dichloropropene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Ethylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Hexachlorobutadiene	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
2-Hexanone (MBK)	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Isopropylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
4-Isopropyltoluene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Methyl tert-butyl ether	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
4-Methyl-2-pentanone (MIBK)	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Methylene Chloride	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Naphthalene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-8 (0-5)
Date Collected: 03/14/24 10:00
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-9
Matrix: Solid
Percent Solids: 88.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Styrene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1,1,2-Tetrachloroethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1,2,2-Tetrachloroethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Tetrachloroethene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Toluene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2,3-Trichlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2,4-Trichlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,3,5-Trichlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1,1-Trichloroethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1,2-Trichloroethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Trichloroethene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Trichlorofluoromethane (Freon 11)	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2,3-Trichloropropane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2,4-Trimethylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,3,5-Trimethylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Vinyl chloride	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
m,p-Xylene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
o-Xylene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Tetrahydrofuran	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Ethyl ether	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Tert-amyl methyl ether	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Ethyl tert-butyl ether	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
di-Isopropyl ether	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
tert-Butanol	ND		124		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,4-Dioxane	ND		124		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
trans-1,4-Dichloro-2-butene	ND		31.0		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Ethanol	ND		1240		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,3-Dichloropropene, Total	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Xylenes, Total	ND		18.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:40*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:40*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:40*	*1*

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-8 (5-10)
Lab Sample ID: 620-17450-10
Date Collected: 03/14/24 11:50
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 77.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Acetone	ND		49.4		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Acrylonitrile	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Benzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Bromobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Bromochloromethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Bromodichloromethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Bromoform	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Bromomethane	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
2-Butanone (MEK)	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
n-Butylbenzene	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
sec-Butylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
tert-Butylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Carbon disulfide	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Carbon tetrachloride	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Chlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Chloroethane	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Chloroform	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Chloromethane	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
2-Chlorotoluene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
4-Chlorotoluene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2-Dibromo-3-Chloropropane	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Dibromochloromethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2-Dibromoethane (EDB)	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Dibromomethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2-Dichlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,3-Dichlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,4-Dichlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Dichlorodifluoromethane (Freon 12)	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1-Dichloroethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2-Dichloroethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1-Dichloroethene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
cis-1,2-Dichloroethene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
trans-1,2-Dichloroethene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2-Dichloropropane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,3-Dichloropropane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
2,2-Dichloropropane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1-Dichloropropene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
cis-1,3-Dichloropropene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
trans-1,3-Dichloropropene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Ethylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Hexachlorobutadiene	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
2-Hexanone (MBK)	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Isopropylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
4-Isopropyltoluene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Methyl tert-butyl ether	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
4-Methyl-2-pentanone (MIBK)	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Methylene Chloride	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Naphthalene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-8 (5-10)
Lab Sample ID: 620-17450-10
Date Collected: 03/14/24 11:50
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 77.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Styrene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1,1,2-Tetrachloroethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1,2,2-Tetrachloroethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Tetrachloroethene	**13.4**		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Toluene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2,3-Trichlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2,4-Trichlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,3,5-Trichlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1,1-Trichloroethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1,2-Trichloroethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Trichloroethene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Trichlorofluoromethane (Freon 11)	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2,3-Trichloropropane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2,4-Trimethylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,3,5-Trimethylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Vinyl chloride	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
m,p-Xylene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
o-Xylene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Tetrahydrofuran	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Ethyl ether	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Tert-amyl methyl ether	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Ethyl tert-butyl ether	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
di-Isopropyl ether	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
tert-Butanol	ND		98.8		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,4-Dioxane	ND		98.8		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
trans-1,4-Dichloro-2-butene	ND		24.7		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Ethanol	ND		988		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,3-Dichloropropene, Total	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Xylenes, Total	ND		14.8		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:06*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:06*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:06*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-7 (0-5)
Date Collected: 03/14/24 11:10
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-11
Matrix: Solid
Percent Solids: 91.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Acetone	ND		46.7		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Acrylonitrile	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Benzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Bromobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Bromochloromethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Bromodichloromethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Bromoform	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Bromomethane	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
2-Butanone (MEK)	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
n-Butylbenzene	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
sec-Butylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
tert-Butylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Carbon disulfide	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Carbon tetrachloride	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Chlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Chloroethane	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Chloroform	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Chloromethane	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
2-Chlorotoluene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
4-Chlorotoluene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2-Dibromo-3-Chloropropane	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Dibromochloromethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2-Dibromoethane (EDB)	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Dibromomethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2-Dichlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,3-Dichlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,4-Dichlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Dichlorodifluoromethane (Freon 12)	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1-Dichloroethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2-Dichloroethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1-Dichloroethene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
cis-1,2-Dichloroethene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
trans-1,2-Dichloroethene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2-Dichloropropane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,3-Dichloropropane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
2,2-Dichloropropane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1-Dichloropropene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
cis-1,3-Dichloropropene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
trans-1,3-Dichloropropene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Ethylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Hexachlorobutadiene	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
2-Hexanone (MBK)	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Isopropylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
4-Isopropyltoluene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Methyl tert-butyl ether	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
4-Methyl-2-pentanone (MIBK)	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Methylene Chloride	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Naphthalene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-7 (0-5)
Date Collected: 03/14/24 11:10
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-11
Matrix: Solid
Percent Solids: 91.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Styrene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1,1,2-Tetrachloroethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1,2,2-Tetrachloroethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Tetrachloroethene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Toluene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2,3-Trichlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2,4-Trichlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,3,5-Trichlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1,1-Trichloroethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1,2-Trichloroethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Trichloroethene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Trichlorofluoromethane (Freon 11)	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2,3-Trichloropropane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2,4-Trimethylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,3,5-Trimethylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Vinyl chloride	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
m,p-Xylene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
o-Xylene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Tetrahydrofuran	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Ethyl ether	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Tert-amyl methyl ether	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Ethyl tert-butyl ether	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
di-Isopropyl ether	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
tert-Butanol	ND		93.4		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,4-Dioxane	ND		93.4		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
trans-1,4-Dichloro-2-butene	ND		23.4		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Ethanol	ND		934		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,3-Dichloropropene, Total	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Xylenes, Total	ND		14.0		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:31*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:31*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:31*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-7 (5-10)
Date Collected: 03/14/24 12:10
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-12
Matrix: Solid
Percent Solids: 78.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Acetone	ND		126		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Acrylonitrile	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Benzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Bromobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Bromochloromethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Bromodichloromethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Bromoform	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Bromomethane	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
2-Butanone (MEK)	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
n-Butylbenzene	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
sec-Butylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
tert-Butylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Carbon disulfide	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Carbon tetrachloride	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Chlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Chloroethane	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Chloroform	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Chloromethane	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
2-Chlorotoluene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
4-Chlorotoluene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2-Dibromo-3-Chloropropane	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Dibromochloromethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2-Dibromoethane (EDB)	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Dibromomethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2-Dichlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,3-Dichlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,4-Dichlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Dichlorodifluoromethane (Freon 12)	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1-Dichloroethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2-Dichloroethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1-Dichloroethene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
cis-1,2-Dichloroethene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
trans-1,2-Dichloroethene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2-Dichloropropane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,3-Dichloropropane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
2,2-Dichloropropane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1-Dichloropropene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
cis-1,3-Dichloropropene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
trans-1,3-Dichloropropene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Ethylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Hexachlorobutadiene	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
2-Hexanone (MBK)	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Isopropylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
4-Isopropyltoluene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Methyl tert-butyl ether	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
4-Methyl-2-pentanone (MIBK)	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Methylene Chloride	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Naphthalene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-7 (5-10)
Lab Sample ID: 620-17450-12
Date Collected: 03/14/24 12:10
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 78.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Styrene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1,1,2-Tetrachloroethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1,2,2-Tetrachloroethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Tetrachloroethene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Toluene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2,3-Trichlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2,4-Trichlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,3,5-Trichlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1,1-Trichloroethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1,2-Trichloroethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Trichloroethene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Trichlorofluoromethane (Freon 11)	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2,3-Trichloropropane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2,4-Trimethylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,3,5-Trimethylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Vinyl chloride	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
m,p-Xylene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
o-Xylene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Tetrahydrofuran	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Ethyl ether	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Tert-amyl methyl ether	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Ethyl tert-butyl ether	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
di-Isopropyl ether	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
tert-Butanol	ND		253		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,4-Dioxane	ND		253		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
trans-1,4-Dichloro-2-butene	ND		63.2		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Ethanol	ND		2530		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,3-Dichloropropene, Total	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Xylenes, Total	ND		37.9		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:57*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:57*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:57*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-6 (0-5)
Date Collected: 03/14/24 12:30
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-13
Matrix: Solid
Percent Solids: 89.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Acetone	ND		52.1		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Acrylonitrile	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Benzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Bromobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Bromochloromethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Bromodichloromethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Bromoform	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Bromomethane	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
2-Butanone (MEK)	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
n-Butylbenzene	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
sec-Butylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
tert-Butylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Carbon disulfide	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Carbon tetrachloride	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Chlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Chloroethane	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Chloroform	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Chloromethane	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
2-Chlorotoluene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
4-Chlorotoluene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2-Dibromo-3-Chloropropane	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Dibromochloromethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2-Dibromoethane (EDB)	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Dibromomethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2-Dichlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,3-Dichlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,4-Dichlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Dichlorodifluoromethane (Freon 12)	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1-Dichloroethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2-Dichloroethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1-Dichloroethene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
cis-1,2-Dichloroethene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
trans-1,2-Dichloroethene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2-Dichloropropane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,3-Dichloropropane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
2,2-Dichloropropane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1-Dichloropropene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
cis-1,3-Dichloropropene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
trans-1,3-Dichloropropene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Ethylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Hexachlorobutadiene	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
2-Hexanone (MBK)	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Isopropylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
4-Isopropyltoluene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Methyl tert-butyl ether	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
4-Methyl-2-pentanone (MIBK)	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Methylene Chloride	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Naphthalene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-6 (0-5)
Date Collected: 03/14/24 12:30
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-13
Matrix: Solid
Percent Solids: 89.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Styrene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1,1,2-Tetrachloroethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1,2,2-Tetrachloroethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Tetrachloroethene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Toluene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2,3-Trichlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2,4-Trichlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,3,5-Trichlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1,1-Trichloroethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1,2-Trichloroethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Trichloroethene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Trichlorofluoromethane (Freon 11)	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2,3-Trichloropropane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2,4-Trimethylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,3,5-Trimethylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Vinyl chloride	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
m,p-Xylene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
o-Xylene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Tetrahydrofuran	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Ethyl ether	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Tert-amyl methyl ether	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Ethyl tert-butyl ether	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
di-Isopropyl ether	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
tert-Butanol	ND		104		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,4-Dioxane	ND		104		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
trans-1,4-Dichloro-2-butene	ND		26.1		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Ethanol	ND		1040		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,3-Dichloropropene, Total	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Xylenes, Total	ND		15.6		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:24*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:24*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:24*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-6 (5-10)
Date Collected: 03/14/24 12:45
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-14
Matrix: Solid
Percent Solids: 92.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Acetone	ND		57.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Acrylonitrile	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Benzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Bromobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Bromochloromethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Bromodichloromethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Bromoform	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Bromomethane	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
2-Butanone (MEK)	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
n-Butylbenzene	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
sec-Butylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
tert-Butylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Carbon disulfide	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Carbon tetrachloride	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Chlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Chloroethane	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Chloroform	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Chloromethane	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
2-Chlorotoluene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
4-Chlorotoluene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2-Dibromo-3-Chloropropane	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Dibromochloromethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2-Dibromoethane (EDB)	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Dibromomethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2-Dichlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,3-Dichlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,4-Dichlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Dichlorodifluoromethane (Freon 12)	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1-Dichloroethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2-Dichloroethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1-Dichloroethene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
cis-1,2-Dichloroethene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
trans-1,2-Dichloroethene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2-Dichloropropane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,3-Dichloropropane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
2,2-Dichloropropane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1-Dichloropropene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
cis-1,3-Dichloropropene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
trans-1,3-Dichloropropene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Ethylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Hexachlorobutadiene	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
2-Hexanone (MBK)	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Isopropylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
4-Isopropyltoluene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Methyl tert-butyl ether	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
4-Methyl-2-pentanone (MIBK)	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Methylene Chloride	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Naphthalene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-6 (5-10)
Lab Sample ID: 620-17450-14
Date Collected: 03/14/24 12:45
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 92.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Styrene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1,1,2-Tetrachloroethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1,2,2-Tetrachloroethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Tetrachloroethene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Toluene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2,3-Trichlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2,4-Trichlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,3,5-Trichlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1,1-Trichloroethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1,2-Trichloroethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Trichloroethene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Trichlorofluoromethane (Freon 11)	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2,3-Trichloropropane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2,4-Trimethylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,3,5-Trimethylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Vinyl chloride	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
m,p-Xylene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
o-Xylene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Tetrahydrofuran	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Ethyl ether	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Tert-amyl methyl ether	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Ethyl tert-butyl ether	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
di-Isopropyl ether	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
tert-Butanol	ND		115		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,4-Dioxane	ND		115		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
trans-1,4-Dichloro-2-butene	ND		28.8		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Ethanol	ND		1150		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,3-Dichloropropene, Total	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Xylenes, Total	ND		17.3		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:50*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:50*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:50*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-4 (0-5)
Date Collected: 03/14/24 13:40
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-15
Matrix: Solid
Percent Solids: 89.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Acetone	ND		50.4		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Acrylonitrile	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Benzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Bromobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Bromochloromethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Bromodichloromethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Bromoform	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Bromomethane	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
2-Butanone (MEK)	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
n-Butylbenzene	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
sec-Butylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
tert-Butylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Carbon disulfide	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Carbon tetrachloride	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Chlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Chloroethane	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Chloroform	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Chloromethane	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
2-Chlorotoluene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
4-Chlorotoluene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2-Dibromo-3-Chloropropane	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Dibromochloromethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2-Dibromoethane (EDB)	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Dibromomethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2-Dichlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,3-Dichlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,4-Dichlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Dichlorodifluoromethane (Freon 12)	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1-Dichloroethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2-Dichloroethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1-Dichloroethene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
cis-1,2-Dichloroethene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
trans-1,2-Dichloroethene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2-Dichloropropane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,3-Dichloropropane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
2,2-Dichloropropane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1-Dichloropropene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
cis-1,3-Dichloropropene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
trans-1,3-Dichloropropene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Ethylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Hexachlorobutadiene	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
2-Hexanone (MBK)	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Isopropylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
4-Isopropyltoluene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Methyl tert-butyl ether	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
4-Methyl-2-pentanone (MIBK)	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Methylene Chloride	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Naphthalene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-4 (0-5)
Lab Sample ID: 620-17450-15
Date Collected: 03/14/24 13:40
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 89.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Styrene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1,1,2-Tetrachloroethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1,2,2-Tetrachloroethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Tetrachloroethene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Toluene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2,3-Trichlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2,4-Trichlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,3,5-Trichlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1,1-Trichloroethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1,2-Trichloroethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Trichloroethene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Trichlorofluoromethane (Freon 11)	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2,3-Trichloropropane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2,4-Trimethylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,3,5-Trimethylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Vinyl chloride	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
m,p-Xylene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
o-Xylene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Tetrahydrofuran	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Ethyl ether	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Tert-amyl methyl ether	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Ethyl tert-butyl ether	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
di-Isopropyl ether	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
tert-Butanol	ND		101		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,4-Dioxane	ND		101		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
trans-1,4-Dichloro-2-butene	ND		25.2		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Ethanol	ND		1010		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,3-Dichloropropene, Total	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Xylenes, Total	ND		15.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:15*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:15*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:15*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-4 (5-10)
Date Collected: 03/14/24 13:55
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-16
Matrix: Solid
Percent Solids: 92.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Acetone	ND		52.6		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Acrylonitrile	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Benzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Bromobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Bromochloromethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Bromodichloromethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Bromoform	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Bromomethane	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
2-Butanone (MEK)	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
n-Butylbenzene	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
sec-Butylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
tert-Butylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Carbon disulfide	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Carbon tetrachloride	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Chlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Chloroethane	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Chloroform	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Chloromethane	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
2-Chlorotoluene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
4-Chlorotoluene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2-Dibromo-3-Chloropropane	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Dibromochloromethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2-Dibromoethane (EDB)	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Dibromomethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2-Dichlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,3-Dichlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,4-Dichlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Dichlorodifluoromethane (Freon 12)	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1-Dichloroethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2-Dichloroethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1-Dichloroethene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
cis-1,2-Dichloroethene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
trans-1,2-Dichloroethene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2-Dichloropropane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,3-Dichloropropane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
2,2-Dichloropropane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1-Dichloropropene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
cis-1,3-Dichloropropene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
trans-1,3-Dichloropropene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Ethylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Hexachlorobutadiene	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
2-Hexanone (MBK)	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Isopropylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
4-Isopropyltoluene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Methyl tert-butyl ether	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
4-Methyl-2-pentanone (MIBK)	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Methylene Chloride	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Naphthalene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-4 (5-10)
Lab Sample ID: 620-17450-16
Date Collected: 03/14/24 13:55
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 92.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Styrene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1,1,2-Tetrachloroethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1,2,2-Tetrachloroethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Tetrachloroethene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Toluene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2,3-Trichlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2,4-Trichlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,3,5-Trichlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1,1-Trichloroethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1,2-Trichloroethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Trichloroethene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Trichlorofluoromethane (Freon 11)	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2,3-Trichloropropane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2,4-Trimethylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,3,5-Trimethylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Vinyl chloride	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
m,p-Xylene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
o-Xylene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Tetrahydrofuran	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Ethyl ether	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Tert-amyl methyl ether	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Ethyl tert-butyl ether	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
di-Isopropyl ether	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
tert-Butanol	ND		105		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,4-Dioxane	ND		105		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
trans-1,4-Dichloro-2-butene	ND		26.3		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Ethanol	ND		1050		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,3-Dichloropropene, Total	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Xylenes, Total	ND		15.8		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:41*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:41*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:41*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-5 (0-5)
Date Collected: 03/14/24 14:25
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-17
Matrix: Solid
Percent Solids: 89.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Acetone	ND		49.2		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Acrylonitrile	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Benzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Bromobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Bromochloromethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Bromodichloromethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Bromoform	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Bromomethane	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
2-Butanone (MEK)	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
n-Butylbenzene	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
sec-Butylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
tert-Butylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Carbon disulfide	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Carbon tetrachloride	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Chlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Chloroethane	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Chloroform	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Chloromethane	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
2-Chlorotoluene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
4-Chlorotoluene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2-Dibromo-3-Chloropropane	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Dibromochloromethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2-Dibromoethane (EDB)	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Dibromomethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2-Dichlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,3-Dichlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,4-Dichlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Dichlorodifluoromethane (Freon 12)	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1-Dichloroethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2-Dichloroethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1-Dichloroethene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
cis-1,2-Dichloroethene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
trans-1,2-Dichloroethene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2-Dichloropropane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,3-Dichloropropane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
2,2-Dichloropropane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1-Dichloropropene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
cis-1,3-Dichloropropene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
trans-1,3-Dichloropropene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Ethylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Hexachlorobutadiene	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
2-Hexanone (MBK)	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Isopropylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
4-Isopropyltoluene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Methyl tert-butyl ether	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
4-Methyl-2-pentanone (MIBK)	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Methylene Chloride	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Naphthalene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-5 (0-5)
Lab Sample ID: 620-17450-17
Date Collected: 03/14/24 14:25
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 89.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Styrene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1,1,2-Tetrachloroethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1,2,2-Tetrachloroethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Tetrachloroethene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Toluene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2,3-Trichlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2,4-Trichlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,3,5-Trichlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1,1-Trichloroethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1,2-Trichloroethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Trichloroethene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Trichlorofluoromethane (Freon 11)	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2,3-Trichloropropane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2,4-Trimethylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,3,5-Trimethylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Vinyl chloride	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
m,p-Xylene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
o-Xylene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Tetrahydrofuran	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Ethyl ether	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Tert-amyl methyl ether	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Ethyl tert-butyl ether	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
di-Isopropyl ether	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
tert-Butanol	ND		98.5		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,4-Dioxane	ND		98.5		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
trans-1,4-Dichloro-2-butene	ND		24.6		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Ethanol	ND		985		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,3-Dichloropropene, Total	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Xylenes, Total	ND		14.8		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:07*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:07*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:07*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-5 (5-10)
Date Collected: 03/14/24 12:10
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-18
Matrix: Solid
Percent Solids: 92.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Acetone	ND		44.3		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Acrylonitrile	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Benzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Bromobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Bromochloromethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Bromodichloromethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Bromoform	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Bromomethane	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
2-Butanone (MEK)	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
n-Butylbenzene	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
sec-Butylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
tert-Butylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Carbon disulfide	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Carbon tetrachloride	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Chlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Chloroethane	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Chloroform	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Chloromethane	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
2-Chlorotoluene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
4-Chlorotoluene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2-Dibromo-3-Chloropropane	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Dibromochloromethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2-Dibromoethane (EDB)	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Dibromomethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2-Dichlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,3-Dichlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,4-Dichlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Dichlorodifluoromethane (Freon 12)	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1-Dichloroethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2-Dichloroethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1-Dichloroethene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
cis-1,2-Dichloroethene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
trans-1,2-Dichloroethene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2-Dichloropropane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,3-Dichloropropane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
2,2-Dichloropropane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1-Dichloropropene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
cis-1,3-Dichloropropene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
trans-1,3-Dichloropropene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Ethylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Hexachlorobutadiene	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
2-Hexanone (MBK)	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Isopropylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
4-Isopropyltoluene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Methyl tert-butyl ether	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
4-Methyl-2-pentanone (MIBK)	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Methylene Chloride	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Naphthalene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-5 (5-10)
Date Collected: 03/14/24 12:10
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-18
Matrix: Solid
Percent Solids: 92.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Styrene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1,1,2-Tetrachloroethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1,2,2-Tetrachloroethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Tetrachloroethene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Toluene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2,3-Trichlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2,4-Trichlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,3,5-Trichlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1,1-Trichloroethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1,2-Trichloroethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Trichloroethene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Trichlorofluoromethane (Freon 11)	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2,3-Trichloropropane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2,4-Trimethylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,3,5-Trimethylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Vinyl chloride	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
m,p-Xylene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
o-Xylene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Tetrahydrofuran	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Ethyl ether	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Tert-amyl methyl ether	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Ethyl tert-butyl ether	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
di-Isopropyl ether	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
tert-Butanol	ND		88.7		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,4-Dioxane	ND		88.7		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
trans-1,4-Dichloro-2-butene	ND		22.2		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Ethanol	ND		887		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,3-Dichloropropene, Total	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Xylenes, Total	ND		13.3		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:33*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:33*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:33*	*1*

Surrogate Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-17450-1	ATC-3 (0-5)	97	97	99	97
620-17450-2	ATC-3 (5-10)	97	98	100	100
620-17450-3	ATC-2 (0-5)	97	97	100	100
620-17450-4	ATC-2 (5-10)	99	99	113	105
620-17450-5	ATC-1 (0-5)	97	99	101	100
620-17450-6	ATC-1 (5-10)	97	99	101	101
620-17450-9	ATC-8 (0-5)	98	98	101	100
620-17450-10	ATC-8 (5-10)	99	99	103	100
620-17450-11	ATC-7 (0-5)	97	99	100	101
620-17450-12	ATC-7 (5-10)	96	99	103	102
620-17450-13	ATC-6 (0-5)	95	99	99	101
620-17450-14	ATC-6 (5-10)	96	99	101	101
620-17450-15	ATC-4 (0-5)	97	100	108	103
620-17450-16	ATC-4 (5-10)	99	99	102	100
620-17450-17	ATC-5 (0-5)	96	98	101	101
620-17450-18	ATC-5 (5-10)	96	100	102	101
LCS 620-33086/1-A	Lab Control Sample	100	100	99	101
LCSD 620-33086/2-A	Lab Control Sample Dup	100	101	98	101
MB 620-33086/3-A	Method Blank	100	99	102	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
620-17450-7	Comp (0-5)	50	50	39	54	63	76
620-17450-8	Comp (5-10)	41	45	42	45	48	65
LCS 620-32927/2-A	Lab Control Sample	75	75	71	76	77	77
LCSD 620-32927/3-A	Lab Control Sample Dup	73	75	68	75	79	85
MB 620-32927/1-A	Method Blank	56	64	50	60	58	86

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Surrogate Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	TPHL	FBP
Lab Sample ID	Client Sample ID	(30-130)	(30-130)	(30-130)
620-17450-7	Comp (0-5)	43	76	51
620-17450-8	Comp (5-10)	46	65	41
MB 620-32927/1-A	Method Blank	55	86	57

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
FBP = 2-Fluorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(30-150)	(30-150)
620-17450-7	Comp (0-5)	73	88
620-17450-8	Comp (5-10)	79	66

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Method: 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1COD	OTPH
Lab Sample ID	Client Sample ID	(40-140)	(40-140)
620-17450-7	Comp (0-5)	100	72
620-17450-8	Comp (5-10)	84	73
LCS 620-32878/2-A	Lab Control Sample	84	79
LCSD 620-32878/3-A	Lab Control Sample Dup	69	64
MB 620-32878/1-A	Method Blank	58	55

Surrogate Legend

1COD = 1-Chlorooctadecane (Surr)
OTPH = o-Terphenyl (Surr)

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-33086/3-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33086

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Acetone	ND		50.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Acrylonitrile	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Benzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Bromobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Bromochloromethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Bromodichloromethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Bromoform	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Bromomethane	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
2-Butanone (MEK)	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
n-Butylbenzene	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
sec-Butylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
tert-Butylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Carbon disulfide	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Carbon tetrachloride	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Chlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Chloroethane	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Chloroform	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Chloromethane	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
2-Chlorotoluene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
4-Chlorotoluene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Dibromochloromethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2-Dibromoethane (EDB)	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Dibromomethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2-Dichlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,3-Dichlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,4-Dichlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Dichlorodifluoromethane (Freon 12)	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1-Dichloroethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2-Dichloroethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1-Dichloroethene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
cis-1,2-Dichloroethene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
trans-1,2-Dichloroethene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2-Dichloropropane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,3-Dichloropropane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
2,2-Dichloropropane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1-Dichloropropene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
cis-1,3-Dichloropropene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
trans-1,3-Dichloropropene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Ethylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Hexachlorobutadiene	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
2-Hexanone (MBK)	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Isopropylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
4-Isopropyltoluene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Methyl tert-butyl ether	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Methylene Chloride	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-33086/3-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33086

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
N-Propylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Styrene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1,1,2-Tetrachloroethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1,2,2-Tetrachloroethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Tetrachloroethene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Toluene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2,3-Trichlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2,4-Trichlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,3,5-Trichlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1,1-Trichloroethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1,2-Trichloroethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Trichloroethene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Trichlorofluoromethane (Freon 11)	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2,3-Trichloropropane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2,4-Trimethylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,3,5-Trimethylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Vinyl chloride	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
m,p-Xylene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
o-Xylene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Tetrahydrofuran	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Ethyl ether	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Tert-amyl methyl ether	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Ethyl tert-butyl ether	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
di-Isopropyl ether	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
tert-Butanol	ND		100		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,4-Dioxane	ND		100		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
trans-1,4-Dichloro-2-butene	ND		25.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Ethanol	ND		1000		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,3-Dichloropropene, Total	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Xylenes, Total	ND		15.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 10:56*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 10:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*03/26/24 07:37*	*03/26/24 10:56*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 10:56*	*1*

Lab Sample ID: LCS 620-33086/1-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33086

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,2-Trichlorotrifluoroethane (Freon 113)			20.0	18.80		ug/Kg		94	70 - 130		
Acetone			20.0	19.91	J	ug/Kg		100	70 - 130		
Acrylonitrile			20.0	18.90		ug/Kg		94	70 - 130		
Benzene			20.0	19.74		ug/Kg		99	70 - 130		
Bromobenzene			20.0	19.44		ug/Kg		97	70 - 130		

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-33086/1-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33086

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	20.0	19.65		ug/Kg		98	70 - 130
Bromodichloromethane	20.0	19.48		ug/Kg		97	70 - 130
Bromoform	20.0	18.46		ug/Kg		92	70 - 130
Bromomethane	20.0	18.25		ug/Kg		91	70 - 130
2-Butanone (MEK)	20.0	20.90		ug/Kg		105	70 - 130
n-Butylbenzene	20.0	18.28		ug/Kg		91	70 - 130
sec-Butylbenzene	20.0	19.96		ug/Kg		100	70 - 130
tert-Butylbenzene	20.0	18.99		ug/Kg		95	70 - 130
Carbon disulfide	20.0	19.07		ug/Kg		95	70 - 130
Carbon tetrachloride	20.0	19.07		ug/Kg		95	70 - 130
Chlorobenzene	20.0	19.44		ug/Kg		97	70 - 130
Chloroethane	20.0	18.66		ug/Kg		93	70 - 130
Chloroform	20.0	19.45		ug/Kg		97	70 - 130
Chloromethane	20.0	19.80		ug/Kg		99	70 - 130
2-Chlorotoluene	20.0	19.62		ug/Kg		98	70 - 130
4-Chlorotoluene	20.0	19.41		ug/Kg		97	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	19.73		ug/Kg		99	70 - 130
Dibromochloromethane	20.0	19.12		ug/Kg		96	70 - 130
1,2-Dibromoethane (EDB)	20.0	19.94		ug/Kg		100	70 - 130
Dibromomethane	20.0	19.81		ug/Kg		99	70 - 130
1,2-Dichlorobenzene	20.0	18.21		ug/Kg		91	70 - 130
1,3-Dichlorobenzene	20.0	19.39		ug/Kg		97	70 - 130
1,4-Dichlorobenzene	20.0	18.93		ug/Kg		95	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	18.58		ug/Kg		93	70 - 130
1,1-Dichloroethane	20.0	19.53		ug/Kg		98	70 - 130
1,2-Dichloroethane	20.0	19.50		ug/Kg		98	70 - 130
1,1-Dichloroethene	20.0	19.27		ug/Kg		96	70 - 130
cis-1,2-Dichloroethene	20.0	19.92		ug/Kg		100	70 - 130
trans-1,2-Dichloroethene	20.0	19.75		ug/Kg		99	70 - 130
1,2-Dichloropropane	20.0	19.63		ug/Kg		98	70 - 130
1,3-Dichloropropane	20.0	20.01		ug/Kg		100	70 - 130
2,2-Dichloropropane	20.0	19.68		ug/Kg		98	70 - 130
1,1-Dichloropropene	20.0	20.07		ug/Kg		100	70 - 130
cis-1,3-Dichloropropene	20.0	19.44		ug/Kg		97	70 - 130
trans-1,3-Dichloropropene	20.0	19.97		ug/Kg		100	70 - 130
Ethylbenzene	20.0	19.70		ug/Kg		98	70 - 130
Hexachlorobutadiene	20.0	18.83		ug/Kg		94	70 - 130
2-Hexanone (MBK)	20.0	18.68		ug/Kg		93	70 - 130
Isopropylbenzene	20.0	19.06		ug/Kg		95	70 - 130
4-Isopropyltoluene	20.0	19.14		ug/Kg		96	70 - 130
Methyl tert-butyl ether	20.0	20.44		ug/Kg		102	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	20.57		ug/Kg		103	70 - 130
Methylene Chloride	20.0	19.10		ug/Kg		95	70 - 130
Naphthalene	20.0	20.69		ug/Kg		103	70 - 130
N-Propylbenzene	20.0	19.71		ug/Kg		99	70 - 130
Styrene	20.0	19.27		ug/Kg		96	70 - 130
1,1,1,2-Tetrachloroethane	20.0	19.24		ug/Kg		96	70 - 130
1,1,2,2-Tetrachloroethane	20.0	19.05		ug/Kg		95	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-33086/1-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33086

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tetrachloroethene			20.0	19.72		ug/Kg		99	70 - 130		
Toluene			20.0	19.65		ug/Kg		98	70 - 130		
1,2,3-Trichlorobenzene			20.0	20.91		ug/Kg		105	70 - 130		
1,2,4-Trichlorobenzene			20.0	19.81		ug/Kg		99	70 - 130		
1,3,5-Trichlorobenzene			20.0	18.74		ug/Kg		94	70 - 130		
1,1,1-Trichloroethane			20.0	19.38		ug/Kg		97	70 - 130		
1,1,2-Trichloroethane			20.0	19.62		ug/Kg		98	70 - 130		
Trichloroethene			20.0	19.07		ug/Kg		95	70 - 130		
Trichlorofluoromethane (Freon 11)			20.0	19.01		ug/Kg		95	70 - 130		
1,2,3-Trichloropropane			20.0	19.44		ug/Kg		97	70 - 130		
1,2,4-Trimethylbenzene			20.0	18.86		ug/Kg		94	70 - 130		
1,3,5-Trimethylbenzene			20.0	19.64		ug/Kg		98	70 - 130		
Vinyl chloride			20.0	18.81		ug/Kg		94	70 - 130		
m,p-Xylene			20.0	19.63		ug/Kg		98	70 - 130		
o-Xylene			20.0	19.32		ug/Kg		97	70 - 130		
Tetrahydrofuran			20.0	20.17		ug/Kg		101	70 - 130		
Ethyl ether			20.0	19.60		ug/Kg		98	70 - 130		
Tert-amyl methyl ether			20.0	19.75		ug/Kg		99	70 - 130		
Ethyl tert-butyl ether			20.0	20.42		ug/Kg		102	70 - 130		
di-Isopropyl ether			20.0	20.16		ug/Kg		101	70 - 130		
tert-Butanol			200	215.9		ug/Kg		108	70 - 130		
1,4-Dioxane			200	209.6		ug/Kg		105	70 - 130		
trans-1,4-Dichloro-2-butene			20.0	18.36	J	ug/Kg		92	70 - 130		
Ethanol			400	389.9	J	ug/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 620-33086/2-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33086

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			20.0	19.20		ug/Kg		96	70 - 130	2	30
Acetone			20.0	17.70	J	ug/Kg		88	70 - 130	12	30
Acrylonitrile			20.0	18.69		ug/Kg		93	70 - 130	1	30
Benzene			20.0	19.95		ug/Kg		100	70 - 130	1	30
Bromobenzene			20.0	19.59		ug/Kg		98	70 - 130	1	30
Bromochloromethane			20.0	20.27		ug/Kg		101	70 - 130	3	30
Bromodichloromethane			20.0	19.66		ug/Kg		98	70 - 130	1	30
Bromoform			20.0	18.18		ug/Kg		91	70 - 130	2	30
Bromomethane			20.0	17.81		ug/Kg		89	70 - 130	2	30
2-Butanone (MEK)			20.0	18.73		ug/Kg		94	70 - 130	11	30
n-Butylbenzene			20.0	18.30		ug/Kg		92	70 - 130	0	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-33086/2-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 33087
Prep Batch: 33086

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene	20.0	19.93		ug/Kg		100	70 - 130	0	30
tert-Butylbenzene	20.0	19.53		ug/Kg		98	70 - 130	3	30
Carbon disulfide	20.0	19.12		ug/Kg		96	70 - 130	0	30
Carbon tetrachloride	20.0	19.60		ug/Kg		98	70 - 130	3	30
Chlorobenzene	20.0	19.75		ug/Kg		99	70 - 130	2	30
Chloroethane	20.0	19.15		ug/Kg		96	70 - 130	3	30
Chloroform	20.0	19.76		ug/Kg		99	70 - 130	2	30
Chloromethane	20.0	19.69		ug/Kg		98	70 - 130	1	30
2-Chlorotoluene	20.0	19.79		ug/Kg		99	70 - 130	1	30
4-Chlorotoluene	20.0	19.50		ug/Kg		98	70 - 130	0	30
1,2-Dibromo-3-Chloropropane	20.0	19.65		ug/Kg		98	70 - 130	0	30
Dibromochloromethane	20.0	19.25		ug/Kg		96	70 - 130	1	30
1,2-Dibromoethane (EDB)	20.0	19.72		ug/Kg		99	70 - 130	1	30
Dibromomethane	20.0	19.48		ug/Kg		97	70 - 130	2	30
1,2-Dichlorobenzene	20.0	18.63		ug/Kg		93	70 - 130	2	30
1,3-Dichlorobenzene	20.0	19.50		ug/Kg		97	70 - 130	1	30
1,4-Dichlorobenzene	20.0	19.10		ug/Kg		95	70 - 130	1	30
Dichlorodifluoromethane (Freon 12)	20.0	18.81		ug/Kg		94	70 - 130	1	30
1,1-Dichloroethane	20.0	19.83		ug/Kg		99	70 - 130	2	30
1,2-Dichloroethane	20.0	19.57		ug/Kg		98	70 - 130	0	30
1,1-Dichloroethene	20.0	19.71		ug/Kg		99	70 - 130	2	30
cis-1,2-Dichloroethene	20.0	20.11		ug/Kg		101	70 - 130	1	30
trans-1,2-Dichloroethene	20.0	19.86		ug/Kg		99	70 - 130	1	30
1,2-Dichloropropane	20.0	19.78		ug/Kg		99	70 - 130	1	30
1,3-Dichloropropane	20.0	19.81		ug/Kg		99	70 - 130	1	30
2,2-Dichloropropane	20.0	19.78		ug/Kg		99	70 - 130	0	30
1,1-Dichloropropene	20.0	20.47		ug/Kg		102	70 - 130	2	30
cis-1,3-Dichloropropene	20.0	19.56		ug/Kg		98	70 - 130	1	30
trans-1,3-Dichloropropene	20.0	19.71		ug/Kg		99	70 - 130	1	30
Ethylbenzene	20.0	19.96		ug/Kg		100	70 - 130	1	30
Hexachlorobutadiene	20.0	19.93		ug/Kg		100	70 - 130	6	30
2-Hexanone (MBK)	20.0	17.22		ug/Kg		86	70 - 130	8	30
Isopropylbenzene	20.0	19.32		ug/Kg		97	70 - 130	1	30
4-Isopropyltoluene	20.0	19.59		ug/Kg		98	70 - 130	2	30
Methyl tert-butyl ether	20.0	20.32		ug/Kg		102	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)	20.0	19.12		ug/Kg		96	70 - 130	7	30
Methylene Chloride	20.0	19.41		ug/Kg		97	70 - 130	2	30
Naphthalene	20.0	20.94		ug/Kg		105	70 - 130	1	30
N-Propylbenzene	20.0	19.79		ug/Kg		99	70 - 130	0	30
Styrene	20.0	19.22		ug/Kg		96	70 - 130	0	30
1,1,1,2-Tetrachloroethane	20.0	19.46		ug/Kg		97	70 - 130	1	30
1,1,2,2-Tetrachloroethane	20.0	18.74		ug/Kg		94	70 - 130	2	30
Tetrachloroethene	20.0	20.01		ug/Kg		100	70 - 130	1	30
Toluene	20.0	20.00		ug/Kg		100	70 - 130	2	30
1,2,3-Trichlorobenzene	20.0	21.12		ug/Kg		106	70 - 130	1	30
1,2,4-Trichlorobenzene	20.0	20.08		ug/Kg		100	70 - 130	1	30
1,3,5-Trichlorobenzene	20.0	19.10		ug/Kg		96	70 - 130	2	30
1,1,1-Trichloroethane	20.0	19.64		ug/Kg		98	70 - 130	1	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-33086/2-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33086

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane			20.0	19.85		ug/Kg		99	70 - 130	1	30
Trichloroethene			20.0	19.38		ug/Kg		97	70 - 130	2	30
Trichlorofluoromethane (Freon 11)			20.0	19.06		ug/Kg		95	70 - 130	0	30
1,2,3-Trichloropropane			20.0	19.00		ug/Kg		95	70 - 130	2	30
1,2,4-Trimethylbenzene			20.0	19.02		ug/Kg		95	70 - 130	1	30
1,3,5-Trimethylbenzene			20.0	19.95		ug/Kg		100	70 - 130	2	30
Vinyl chloride			20.0	18.85		ug/Kg		94	70 - 130	0	30
m,p-Xylene			20.0	19.88		ug/Kg		99	70 - 130	1	30
o-Xylene			20.0	19.51		ug/Kg		98	70 - 130	1	30
Tetrahydrofuran			20.0	19.04		ug/Kg		95	70 - 130	6	30
Ethyl ether			20.0	19.98		ug/Kg		100	70 - 130	2	30
Tert-amyl methyl ether			20.0	19.77		ug/Kg		99	70 - 130	0	30
Ethyl tert-butyl ether			20.0	20.59		ug/Kg		103	70 - 130	1	30
di-Isopropyl ether			20.0	20.36		ug/Kg		102	70 - 130	1	30
tert-Butanol			200	202.9		ug/Kg		101	70 - 130	6	30
1,4-Dioxane			200	191.8		ug/Kg		96	70 - 130	9	30
trans-1,4-Dichloro-2-butene			20.0	17.90	J	ug/Kg		90	70 - 130	2	30
Ethanol			400	313.8	J	ug/Kg		78	70 - 130	22	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-32927/1-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32927

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
1,2,4-Trichlorobenzene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
1,2-Dichlorobenzene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
1,3-Dichlorobenzene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
1,4-Dichlorobenzene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,4,5-Trichlorophenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,4,6-Trichlorophenol	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,4-Dichlorophenol	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,4-Dimethylphenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,4-Dinitrophenol	ND		660		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,4-Dinitrotoluene	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,6-Dinitrotoluene	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2-Chloronaphthalene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2-Chlorophenol	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2-Methylphenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2-Nitroaniline	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-32927/1-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32927

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
3 & 4 Methylphenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
3,3'-Dichlorobenzidine	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
3-Nitroaniline	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4,6-Dinitro-2-methylphenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4-Bromophenyl phenyl ether	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4-Chloro-3-methylphenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4-Chloroaniline	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4-Chlorophenyl phenyl ether	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4-Nitroaniline	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4-Nitrophenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Acetophenone	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Aniline	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Azobenzene/Diphenyldiazene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzidine	ND		660		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzoic acid	ND		667		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzyl alcohol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Bis(2-chloroethoxy)methane	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Bis(2-chloroethyl)ether	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
bis (2-chloroisopropyl) ether	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Bis(2-ethylhexyl) phthalate	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Butyl benzyl phthalate	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Carbazole	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Dibenzofuran	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Diethyl phthalate	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Dimethyl phthalate	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Di-n-butyl phthalate	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Di-n-octyl phthalate	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Hexachlorobenzene	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Hexachlorobutadiene	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Hexachlorocyclopentadiene	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Hexachloroethane	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Isophorone	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Nitrobenzene	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
N-Nitrosodimethylamine	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
N-Nitrosodi-n-propylamine	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
N-Nitrosodiphenylamine	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Pentachloronitrobenzene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Pentachlorophenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Phenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Pyridine	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*56*		*30 - 130*	*03/21/24 08:36*	*03/21/24 13:46*	*1*
2-Fluorophenol (Surr)	*64*		*15 - 110*	*03/21/24 08:36*	*03/21/24 13:46*	*1*
Nitrobenzene-d5 (Surr)	*50*		*30 - 130*	*03/21/24 08:36*	*03/21/24 13:46*	*1*
Phenol-d5 (Surr)	*60*		*15 - 110*	*03/21/24 08:36*	*03/21/24 13:46*	*1*
2,4,6-Tribromophenol (Surr)	*58*		*15 - 110*	*03/21/24 08:36*	*03/21/24 13:46*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-32927/1-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32927

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	86		30 - 130	03/21/24 08:36	03/21/24 13:46	1

Lab Sample ID: LCS 620-32927/2-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32927

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	1670	1173		ug/Kg		70	40 - 140
1,2,4-Trichlorobenzene	1670	1139		ug/Kg		68	40 - 140
1,2-Dichlorobenzene	1670	1122		ug/Kg		67	40 - 140
1,3-Dichlorobenzene	1670	1171		ug/Kg		70	40 - 140
1,4-Dichlorobenzene	1670	1147		ug/Kg		69	40 - 140
2,4,5-Trichlorophenol	1670	1191		ug/Kg		71	30 - 130
2,4,6-Trichlorophenol	1670	1318		ug/Kg		79	30 - 130
2,4-Dichlorophenol	1670	1163		ug/Kg		70	30 - 130
2,4-Dimethylphenol	1670	1113		ug/Kg		67	30 - 130
2,4-Dinitrophenol	1670	968.3		ug/Kg		58	30 - 130
2,4-Dinitrotoluene	1670	1430		ug/Kg		86	40 - 140
2,6-Dinitrotoluene	1670	1332		ug/Kg		80	40 - 140
2-Chloronaphthalene	1670	1284		ug/Kg		77	40 - 140
2-Chlorophenol	1670	1209		ug/Kg		73	30 - 130
2-Methylphenol	1670	1235		ug/Kg		74	30 - 130
2-Nitroaniline	1670	987.5		ug/Kg		59	40 - 140
2-Nitrophenol	1670	1130		ug/Kg		68	30 - 130
3 & 4 Methylphenol	1670	1243		ug/Kg		75	30 - 130
3,3'-Dichlorobenzidine	1670	1636		ug/Kg		98	40 - 140
3-Nitroaniline	1670	733.0		ug/Kg		44	40 - 140
4,6-Dinitro-2-methylphenol	1670	1157		ug/Kg		69	30 - 130
4-Bromophenyl phenyl ether	1670	1330		ug/Kg		80	40 - 140
4-Chloro-3-methylphenol	1670	1303		ug/Kg		78	30 - 130
4-Chloroaniline	1670	520.8	*-	ug/Kg		31	40 - 140
4-Chlorophenyl phenyl ether	1670	1380		ug/Kg		83	40 - 140
4-Nitroaniline	1670	929.3		ug/Kg		56	40 - 140
4-Nitrophenol	1670	1315		ug/Kg		79	30 - 130
Acetophenone	1670	1179		ug/Kg		71	40 - 140
Aniline	1670	606.8	*-	ug/Kg		36	40 - 140
Azobenzene/Diphenyldiazene	1670	885.0		ug/Kg		53	40 - 140
Benzidine	1670	399.0	J *-	ug/Kg		24	40 - 140
Benzoic acid	1670	443.3	*-	ug/Kg		27	30 - 130
Benzyl alcohol	1670	1074		ug/Kg		64	40 - 140
Bis(2-chloroethoxy)methane	1670	1054		ug/Kg		63	40 - 140
Bis(2-chloroethyl)ether	1670	1117		ug/Kg		67	40 - 140
bis (2-chloroisopropyl) ether	1670	998.5		ug/Kg		60	40 - 140
Bis(2-ethylhexyl) phthalate	1670	1399		ug/Kg		84	40 - 140
Butyl benzyl phthalate	1670	1403		ug/Kg		84	40 - 140
Carbazole	1670	951.1		ug/Kg		57	40 - 140
Dibenzofuran	1670	1326		ug/Kg		80	40 - 140
Diethyl phthalate	1670	1365		ug/Kg		82	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-32927/2-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32927

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Dimethyl phthalate			1670	1367		ug/Kg		82	40 - 140		
Di-n-butyl phthalate			1670	1373		ug/Kg		82	40 - 140		
Di-n-octyl phthalate			1670	1433		ug/Kg		86	40 - 140		
Hexachlorobenzene			1670	1358		ug/Kg		81	40 - 140		
Hexachlorobutadiene			1670	1008		ug/Kg		61	40 - 140		
Hexachlorocyclopentadiene			1670	974.9		ug/Kg		58	40 - 140		
Hexachloroethane			1670	1115		ug/Kg		67	40 - 140		
Isophorone			1670	1043		ug/Kg		63	40 - 140		
Nitrobenzene			1670	1166		ug/Kg		70	40 - 140		
N-Nitrosodimethylamine			1670	824.2		ug/Kg		49	40 - 140		
N-Nitrosodi-n-propylamine			1670	1231		ug/Kg		74	40 - 140		
N-Nitrosodiphenylamine			1670	1452		ug/Kg		87	40 - 140		
Pentachloronitrobenzene			1670	1479		ug/Kg		89	40 - 140		
Pentachlorophenol			1670	1067		ug/Kg		64	30 - 130		
Phenol			1670	1197		ug/Kg		72	40 - 140		
Pyridine			1670	582.1	*-	ug/Kg		35	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*75*		*30 - 130*
2-Fluorophenol (Surr)	*75*		*15 - 110*
Nitrobenzene-d5 (Surr)	*71*		*30 - 130*
Phenol-d5 (Surr)	*76*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*77*		*15 - 110*
Terphenyl-d14 (Surr)	*77*		*30 - 130*

Lab Sample ID: LCSD 620-32927/3-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32927

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			1670	1135		ug/Kg		68	40 - 140	3	30
1,2,4-Trichlorobenzene			1670	1061		ug/Kg		64	40 - 140	7	30
1,2-Dichlorobenzene			1670	1074		ug/Kg		64	40 - 140	4	30
1,3-Dichlorobenzene			1670	1105		ug/Kg		66	40 - 140	6	30
1,4-Dichlorobenzene			1670	1110		ug/Kg		67	40 - 140	3	30
2,4,5-Trichlorophenol			1670	1186		ug/Kg		71	30 - 130	0	30
2,4,6-Trichlorophenol			1670	1295		ug/Kg		78	30 - 130	2	30
2,4-Dichlorophenol			1670	1129		ug/Kg		68	30 - 130	3	30
2,4-Dimethylphenol			1670	1091		ug/Kg		65	30 - 130	2	30
2,4-Dinitrophenol			1670	994.5		ug/Kg		60	30 - 130	3	30
2,4-Dinitrotoluene			1670	1436		ug/Kg		86	40 - 140	0	30
2,6-Dinitrotoluene			1670	1348		ug/Kg		81	40 - 140	1	30
2-Chloronaphthalene			1670	1240		ug/Kg		74	40 - 140	3	30
2-Chlorophenol			1670	1173		ug/Kg		70	30 - 130	3	30
2-Methylphenol			1670	1206		ug/Kg		72	30 - 130	2	30
2-Nitroaniline			1670	994.4		ug/Kg		60	40 - 140	1	30
2-Nitrophenol			1670	1066		ug/Kg		64	30 - 130	6	30
3 & 4 Methylphenol			1670	1217		ug/Kg		73	30 - 130	2	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-32927/3-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32927

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3,3'-Dichlorobenzidine			1670	1610		ug/Kg		97	40 - 140	2	30
3-Nitroaniline			1670	716.5		ug/Kg		43	40 - 140	2	30
4,6-Dinitro-2-methylphenol			1670	1193		ug/Kg		72	30 - 130	3	30
4-Bromophenyl phenyl ether			1670	1332		ug/Kg		80	40 - 140	0	30
4-Chloro-3-methylphenol			1670	1264		ug/Kg		76	30 - 130	3	30
4-Chloroaniline			1670	433.8	*-	ug/Kg		26	40 - 140	18	30
4-Chlorophenyl phenyl ether			1670	1388		ug/Kg		83	40 - 140	1	30
4-Nitroaniline			1670	969.4		ug/Kg		58	40 - 140	4	30
4-Nitrophenol			1670	1261		ug/Kg		76	30 - 130	4	30
Acetophenone			1670	1136		ug/Kg		68	40 - 140	4	30
Aniline			1670	545.3	*-	ug/Kg		33	40 - 140	11	30
Azobenzene/Diphenyldiazene			1670	871.0		ug/Kg		52	40 - 140	2	30
Benzidine			1670	391.4	J *-	ug/Kg		23	40 - 140	2	30
Benzoic acid			1670	392.4	*-	ug/Kg		24	30 - 130	12	30
Benzyl alcohol			1670	1052		ug/Kg		63	40 - 140	2	30
Bis(2-chloroethoxy)methane			1670	1011		ug/Kg		61	40 - 140	4	30
Bis(2-chloroethyl)ether			1670	1081		ug/Kg		65	40 - 140	3	30
bis (2-chloroisopropyl) ether			1670	972.2		ug/Kg		58	40 - 140	3	30
Bis(2-ethylhexyl) phthalate			1670	1465		ug/Kg		88	40 - 140	5	30
Butyl benzyl phthalate			1670	1454		ug/Kg		87	40 - 140	4	30
Carbazole			1670	987.3		ug/Kg		59	40 - 140	4	30
Dibenzofuran			1670	1342		ug/Kg		81	40 - 140	1	30
Diethyl phthalate			1670	1398		ug/Kg		84	40 - 140	2	30
Dimethyl phthalate			1670	1360		ug/Kg		82	40 - 140	0	30
Di-n-butyl phthalate			1670	1404		ug/Kg		84	40 - 140	2	30
Di-n-octyl phthalate			1670	1511		ug/Kg		91	40 - 140	5	30
Hexachlorobenzene			1670	1372		ug/Kg		82	40 - 140	1	30
Hexachlorobutadiene			1670	945.1		ug/Kg		57	40 - 140	6	30
Hexachlorocyclopentadiene			1670	956.8		ug/Kg		57	40 - 140	2	30
Hexachloroethane			1670	1065		ug/Kg		64	40 - 140	5	30
Isophorone			1670	990.8		ug/Kg		59	40 - 140	5	30
Nitrobenzene			1670	1108		ug/Kg		66	40 - 140	5	30
N-Nitrosodimethylamine			1670	813.7		ug/Kg		49	40 - 140	1	30
N-Nitrosodi-n-propylamine			1670	1218		ug/Kg		73	40 - 140	1	30
N-Nitrosodiphenylamine			1670	1454		ug/Kg		87	40 - 140	0	30
Pentachloronitrobenzene			1670	1494		ug/Kg		90	40 - 140	1	30
Pentachlorophenol			1670	1098		ug/Kg		66	30 - 130	3	30
Phenol			1670	1189		ug/Kg		71	40 - 140	1	30
Pyridine			1670	550.5	*-	ug/Kg		33	40 - 140	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*73*		*30 - 130*
2-Fluorophenol (Surr)	*75*		*15 - 110*
Nitrobenzene-d5 (Surr)	*68*		*30 - 130*
Phenol-d5 (Surr)	*75*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*
Terphenyl-d14 (Surr)	*85*		*30 - 130*

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Lab Sample ID: MB 620-32927/1-A
Matrix: Solid
Analysis Batch: 32952

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32927

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Acenaphthylene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
1-Methylnaphthalene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Anthracene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzo[a]anthracene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzo[a]pyrene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzo[b]fluoranthene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzo[g,h,i]perylene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzo[k]fluoranthene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Chrysene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Dibenz(a,h)anthracene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Fluoranthene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Fluorene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Indeno[1,2,3-cd]pyrene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2-Methylnaphthalene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Naphthalene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Phenanthrene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Pyrene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Bis(2-ethylhexyl) phthalate	ND		33.3		ug/Kg		03/21/24 08:36	03/21/24 13:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*55*		*30 - 130*	*03/21/24 08:36*	*03/21/24 13:46*	*1*
Terphenyl-d14 (Surr)	*86*		*30 - 130*	*03/21/24 08:36*	*03/21/24 13:46*	*1*
2-Fluorobiphenyl (Surr)	*57*		*30 - 130*	*03/21/24 08:36*	*03/21/24 13:46*	*1*

Method: 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Lab Sample ID: MB 620-32878/1-A
Matrix: Solid
Analysis Batch: 32965

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32878

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TEPH (C9-C36)	ND		13.3		mg/Kg		03/19/24 17:07	03/21/24 13:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*58*		*40 - 140*	*03/19/24 17:07*	*03/21/24 13:42*	*1*
o-Terphenyl (Surr)	*55*		*40 - 140*	*03/19/24 17:07*	*03/21/24 13:42*	*1*

Lab Sample ID: LCS 620-32878/2-A
Matrix: Solid
Analysis Batch: 32965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32878

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TEPH (C9-C36)			360	274.4		mg/Kg		76	30 - 100		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctadecane (Surr)	*84*		*40 - 140*
o-Terphenyl (Surr)	*79*		*40 - 140*

Method: 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Lab Sample ID: LCSD 620-32878/3-A
Matrix: Solid
Analysis Batch: 32965

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32878

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TEPH (C9-C36)			360	215.3		mg/Kg		60	30 - 100	24	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctadecane (Surr)	*69*		*40 - 140*
o-Terphenyl (Surr)	*64*		*40 - 140*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 620-33090/1-A
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33090

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.50		mg/Kg		03/26/24 08:24	03/27/24 14:42	1
Barium	ND		1.00		mg/Kg		03/26/24 08:24	03/27/24 14:42	1
Cadmium	ND		0.500		mg/Kg		03/26/24 08:24	03/27/24 14:42	1
Chromium	ND		1.00		mg/Kg		03/26/24 08:24	03/27/24 14:42	1
Lead	ND		1.50		mg/Kg		03/26/24 08:24	03/27/24 14:42	1
Selenium	ND		1.50		mg/Kg		03/26/24 08:24	03/27/24 14:42	1
Silver	ND		1.50		mg/Kg		03/26/24 08:24	03/27/24 14:42	1

Lab Sample ID: LCSSRM 620-33090/2-A
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33090

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			223	189.0		mg/Kg		84.8	70.4 - 102.2		
Barium			445	462.6		mg/Kg		104.0	78.0 - 110.8		
Cadmium			226	235.6		mg/Kg		104.3	73.9 - 104.9		
Chromium			230	206.4		mg/Kg		89.7	73.5 - 107.0		
Lead			275	266.9		mg/Kg		97.1	74.2 - 108.0		
Selenium			137	127.0		mg/Kg		92.7	70.9 - 108.8		
Silver			75.3	58.60		mg/Kg		77.8	72.0 - 110.1		

Lab Sample ID: 620-17450-7 MS
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (0-5)
Prep Type: Total/NA
Prep Batch: 33090

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic	ND	F1	100	75.72	F1	mg/Kg	☼	73	75 - 125		
Cadmium	ND		100	79.83		mg/Kg	☼	80	75 - 125		
Chromium	13.6	F1	100	86.58	F1	mg/Kg	☼	73	75 - 125		
Lead	21.0		100	98.74		mg/Kg	☼	78	75 - 125		
Selenium	ND	F1	100	72.55	F1	mg/Kg	☼	73	75 - 125		

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-17450-7 MS
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (0-5)
Prep Type: Total/NA
Prep Batch: 33090

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	ND	F1	100	46.65	F1	mg/Kg	☼	47	75 - 125

Lab Sample ID: 620-17450-7 MSD
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (0-5)
Prep Type: Total/NA
Prep Batch: 33090

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND	F1	92.8	85.32		mg/Kg	☼	89	75 - 125	12	20
Barium	45.9		92.8	147.8		mg/Kg	☼	110	75 - 125	6	20
Cadmium	ND		92.8	88.13		mg/Kg	☼	95	75 - 125	10	20
Chromium	13.6	F1	92.8	95.99		mg/Kg	☼	89	75 - 125	10	20
Lead	21.0		92.8	101.7		mg/Kg	☼	87	75 - 125	3	20
Selenium	ND	F1	92.8	80.90		mg/Kg	☼	87	75 - 125	11	20
Silver	ND	F1	92.9	44.43	F1	mg/Kg	☼	48	75 - 125	5	20

Lab Sample ID: 620-17450-7 DU
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (0-5)
Prep Type: Total/NA
Prep Batch: 33090

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	ND	F1	ND		mg/Kg	☼	NC	20
Cadmium	ND		ND		mg/Kg	☼	NC	20
Chromium	13.6	F1	12.73		mg/Kg	☼	7	20
Lead	21.0		25.81		mg/Kg	☼	20	20
Selenium	ND	F1	ND		mg/Kg	☼	NC	20
Silver	ND	F1	ND		mg/Kg	☼	NC	20

Lab Sample ID: MB 620-33121/1-A
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33121

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0150	mg/L		03/26/24 15:40	03/27/24 13:11	1

Lab Sample ID: LCS 620-33121/2-A
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33121

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	2.00	1.976		mg/L		99	80 - 120

Lab Sample ID: LB 620-32864/1-B
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 33121

Analyte	LB Result	LB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0150	mg/L		03/26/24 15:40	03/27/24 13:59	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-17450-8 MS
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (5-10)
Prep Type: TCLP
Prep Batch: 33121

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	ND		2.00	1.724		mg/L		86	75 - 125

Lab Sample ID: 620-17450-8 MSD
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (5-10)
Prep Type: TCLP
Prep Batch: 33121

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		2.00	1.767		mg/L		88	75 - 125	2	20

Lab Sample ID: 620-17450-8 DU
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (5-10)
Prep Type: TCLP
Prep Batch: 33121

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	ND		ND		mg/L		NC	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 620-32865/1-A
Matrix: Solid
Analysis Batch: 32883

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32865

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0500		mg/Kg		03/19/24 11:28	03/19/24 15:14	1

Lab Sample ID: LCSSRM 620-32865/2-A ^20
Matrix: Solid
Analysis Batch: 32883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32865

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury			25.5	22.86		mg/Kg		89.6	71.4 - 125. 1

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 410-485688/1
Matrix: Solid
Analysis Batch: 485688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Flashpoint			81.0	80.00		Degrees F		99	96.9 - 103. 1

Lab Sample ID: LCSD 410-485688/2
Matrix: Solid
Analysis Batch: 485688

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Flashpoint			81.0	79.00		Degrees F		98	96.9 - 103. 1	1	4

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 410-486607/1-A
Matrix: Solid
Analysis Batch: 486903

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 486607

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		60.0		mg/Kg		03/25/24 08:25	03/25/24 16:36	1

Lab Sample ID: LCS 410-486607/2-A
Matrix: Solid
Analysis Batch: 486903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486607

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Reactive			1000	ND		mg/Kg		3	0 - 5.14		

Lab Sample ID: LCSD 410-486607/3-A
Matrix: Solid
Analysis Batch: 486903

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 486607

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Reactive			1000	ND		mg/Kg		3	0 - 5.14	11	11

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 410-486607/1-A
Matrix: Solid
Analysis Batch: 486731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 486607

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		160		mg/Kg		03/25/24 08:25	03/25/24 12:45	1

Lab Sample ID: LCS 410-486607/26-A
Matrix: Solid
Analysis Batch: 486731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486607

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide, Reactive			538	394.3		mg/Kg		73	62 - 104		

Lab Sample ID: LCSD 410-486607/27-A
Matrix: Solid
Analysis Batch: 486731

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 486607

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide, Reactive			538	404.2		mg/Kg		75	62 - 104	2	21

Method: 9045D - pH

Lab Sample ID: LCDSRM 620-33213/6
Matrix: Solid
Analysis Batch: 33213

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
pH			6.00	6.1		SU		100.8	97.5 - 102.5	1	5

Method: 9045D - pH (Continued)

Lab Sample ID: LCSSRM 620-33213/5
Matrix: Solid
Analysis Batch: 33213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
pH			6.00	6.0		SU		100.2	97.5 - 102.5		

Lab Sample ID: MB 620-33195/1-A
Matrix: Solid
Analysis Batch: 33213

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6				SU			03/28/24 11:32	1
Temperature	23.4				Degrees C			03/28/24 11:32	1

Lab Sample ID: 620-17450-7 DU
Matrix: Solid
Analysis Batch: 33213

Client Sample ID: Comp (0-5)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	8.4			8.6		SU				2	5
Temperature	23.4			23.4		Degrees C				0	5

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 410-485914/4
Matrix: Solid
Analysis Batch: 485914

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		300		mg/Kg			03/21/24 12:15	1

Lab Sample ID: LCS 410-485914/3
Matrix: Solid
Analysis Batch: 485914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon			3920	4950		mg/Kg		126	36 - 163		

Lab Sample ID: 620-17450-7 MS
Matrix: Solid
Analysis Batch: 485914

Client Sample ID: Comp (0-5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon	4780	F1	177000	24340	F1	mg/Kg		11	36 - 163		

Lab Sample ID: 620-17450-7 MSD
Matrix: Solid
Analysis Batch: 485914

Client Sample ID: Comp (0-5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	4780	F1	17500	23530		mg/Kg		107	36 - 163	3	20

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: LCDSRM 620-33209/3
Matrix: Solid
Analysis Batch: 33209

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Specific Conductance			1410	1405		uS/cm		99.4	95.0 - 105.0	0	20

Lab Sample ID: LCSSRM 620-33209/2
Matrix: Solid
Analysis Batch: 33209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Specific Conductance			1410	1402		uS/cm		99.2	95.0 - 105.0		

Lab Sample ID: MB 620-33195/1-A
Matrix: Solid
Analysis Batch: 33209

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		10.0		uS/cm			03/28/24 11:04	1

Lab Sample ID: 620-17450-7 DU
Matrix: Solid
Analysis Batch: 33209

Client Sample ID: Comp (0-5)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Specific Conductance	1200			1171		uS/cm				2	5

GC/MS VOA

Pre Prep Batch: 32834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-1	ATC-3 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-2	ATC-3 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-3	ATC-2 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-4	ATC-2 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-5	ATC-1 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-6	ATC-1 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-9	ATC-8 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-10	ATC-8 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-11	ATC-7 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-12	ATC-7 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-13	ATC-6 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-14	ATC-6 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-15	ATC-4 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-16	ATC-4 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-17	ATC-5 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-18	ATC-5 (5-10)	Total/NA	Solid	Frozen Preserve	

Prep Batch: 33086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-1	ATC-3 (0-5)	Total/NA	Solid	5035	32834
620-17450-2	ATC-3 (5-10)	Total/NA	Solid	5035	32834
620-17450-3	ATC-2 (0-5)	Total/NA	Solid	5035	32834
620-17450-4	ATC-2 (5-10)	Total/NA	Solid	5035	32834
620-17450-5	ATC-1 (0-5)	Total/NA	Solid	5035	32834
620-17450-6	ATC-1 (5-10)	Total/NA	Solid	5035	32834
620-17450-9	ATC-8 (0-5)	Total/NA	Solid	5035	32834
620-17450-10	ATC-8 (5-10)	Total/NA	Solid	5035	32834
620-17450-11	ATC-7 (0-5)	Total/NA	Solid	5035	32834
620-17450-12	ATC-7 (5-10)	Total/NA	Solid	5035	32834
620-17450-13	ATC-6 (0-5)	Total/NA	Solid	5035	32834
620-17450-14	ATC-6 (5-10)	Total/NA	Solid	5035	32834
620-17450-15	ATC-4 (0-5)	Total/NA	Solid	5035	32834
620-17450-16	ATC-4 (5-10)	Total/NA	Solid	5035	32834
620-17450-17	ATC-5 (0-5)	Total/NA	Solid	5035	32834
620-17450-18	ATC-5 (5-10)	Total/NA	Solid	5035	32834
MB 620-33086/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-33086/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-33086/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

GC/MS VOA

Analysis Batch: 33087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-1	ATC-3 (0-5)	Total/NA	Solid	8260C	33086
620-17450-2	ATC-3 (5-10)	Total/NA	Solid	8260C	33086
620-17450-3	ATC-2 (0-5)	Total/NA	Solid	8260C	33086
620-17450-4	ATC-2 (5-10)	Total/NA	Solid	8260C	33086
620-17450-5	ATC-1 (0-5)	Total/NA	Solid	8260C	33086
620-17450-6	ATC-1 (5-10)	Total/NA	Solid	8260C	33086
620-17450-9	ATC-8 (0-5)	Total/NA	Solid	8260C	33086
620-17450-10	ATC-8 (5-10)	Total/NA	Solid	8260C	33086
620-17450-11	ATC-7 (0-5)	Total/NA	Solid	8260C	33086
620-17450-12	ATC-7 (5-10)	Total/NA	Solid	8260C	33086
620-17450-13	ATC-6 (0-5)	Total/NA	Solid	8260C	33086
620-17450-14	ATC-6 (5-10)	Total/NA	Solid	8260C	33086
620-17450-15	ATC-4 (0-5)	Total/NA	Solid	8260C	33086
620-17450-16	ATC-4 (5-10)	Total/NA	Solid	8260C	33086
620-17450-17	ATC-5 (0-5)	Total/NA	Solid	8260C	33086
620-17450-18	ATC-5 (5-10)	Total/NA	Solid	8260C	33086
MB 620-33086/3-A	Method Blank	Total/NA	Solid	8260C	33086
LCS 620-33086/1-A	Lab Control Sample	Total/NA	Solid	8260C	33086
LCSD 620-33086/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	33086

GC/MS Semi VOA

Prep Batch: 32927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	3546	
620-17450-8	Comp (5-10)	Total/NA	Solid	3546	
MB 620-32927/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-32927/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-32927/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 32951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	8270D	32927
620-17450-8	Comp (5-10)	Total/NA	Solid	8270D	32927
MB 620-32927/1-A	Method Blank	Total/NA	Solid	8270D	32927
LCS 620-32927/2-A	Lab Control Sample	Total/NA	Solid	8270D	32927
LCSD 620-32927/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	32927

Analysis Batch: 32952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	8270D_LL_PAH	32927
620-17450-8	Comp (5-10)	Total/NA	Solid	8270D_LL_PAH	32927
MB 620-32927/1-A	Method Blank	Total/NA	Solid	8270D_LL_PAH	32927

GC Semi VOA

Prep Batch: 32873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	3540C	
620-17450-8	Comp (5-10)	Total/NA	Solid	3540C	

GC Semi VOA

Prep Batch: 32878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	3546	
620-17450-8	Comp (5-10)	Total/NA	Solid	3546	
MB 620-32878/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-32878/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-32878/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 32965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	8100	32878
620-17450-8	Comp (5-10)	Total/NA	Solid	8100	32878
MB 620-32878/1-A	Method Blank	Total/NA	Solid	8100	32878
LCS 620-32878/2-A	Lab Control Sample	Total/NA	Solid	8100	32878
LCSD 620-32878/3-A	Lab Control Sample Dup	Total/NA	Solid	8100	32878

Analysis Batch: 32987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	8082	32873
620-17450-8	Comp (5-10)	Total/NA	Solid	8082	32873

Metals

Leach Batch: 32864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	TCLP	Solid	1311	
620-17450-8	Comp (5-10)	TCLP	Solid	1311	
LB 620-32864/1-B	Method Blank	TCLP	Solid	1311	
620-17450-8 MS	Comp (5-10)	TCLP	Solid	1311	
620-17450-8 MSD	Comp (5-10)	TCLP	Solid	1311	
620-17450-8 DU	Comp (5-10)	TCLP	Solid	1311	

Prep Batch: 32865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	7471B	
620-17450-8	Comp (5-10)	Total/NA	Solid	7471B	
MB 620-32865/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 620-32865/2-A ^20	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 32883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	7471A	32865
620-17450-8	Comp (5-10)	Total/NA	Solid	7471A	32865
MB 620-32865/1-A	Method Blank	Total/NA	Solid	7471A	32865
LCSSRM 620-32865/2-A ^20	Lab Control Sample	Total/NA	Solid	7471A	32865

Prep Batch: 33090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	3050B	
620-17450-8	Comp (5-10)	Total/NA	Solid	3050B	
MB 620-33090/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 620-33090/2-A	Lab Control Sample	Total/NA	Solid	3050B	
620-17450-7 MS	Comp (0-5)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 33090 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7 MSD	Comp (0-5)	Total/NA	Solid	3050B	
620-17450-7 DU	Comp (0-5)	Total/NA	Solid	3050B	

Prep Batch: 33121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	TCLP	Solid	3010A	32864
620-17450-8	Comp (5-10)	TCLP	Solid	3010A	32864
LB 620-32864/1-B	Method Blank	TCLP	Solid	3010A	32864
MB 620-33121/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 620-33121/2-A	Lab Control Sample	Total/NA	Solid	3010A	
620-17450-8 MS	Comp (5-10)	TCLP	Solid	3010A	32864
620-17450-8 MSD	Comp (5-10)	TCLP	Solid	3010A	32864
620-17450-8 DU	Comp (5-10)	TCLP	Solid	3010A	32864

Analysis Batch: 33178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	TCLP	Solid	6010D	33121
620-17450-7	Comp (0-5)	Total/NA	Solid	6010D	33090
620-17450-8	Comp (5-10)	TCLP	Solid	6010D	33121
620-17450-8	Comp (5-10)	Total/NA	Solid	6010D	33090
LB 620-32864/1-B	Method Blank	TCLP	Solid	6010D	33121
MB 620-33090/1-A	Method Blank	Total/NA	Solid	6010D	33090
MB 620-33121/1-A	Method Blank	Total/NA	Solid	6010D	33121
LCS 620-33121/2-A	Lab Control Sample	Total/NA	Solid	6010D	33121
LCSSRM 620-33090/2-A	Lab Control Sample	Total/NA	Solid	6010D	33090
620-17450-7 MS	Comp (0-5)	Total/NA	Solid	6010D	33090
620-17450-7 MSD	Comp (0-5)	Total/NA	Solid	6010D	33090
620-17450-8 MS	Comp (5-10)	TCLP	Solid	6010D	33121
620-17450-8 MSD	Comp (5-10)	TCLP	Solid	6010D	33121
620-17450-7 DU	Comp (0-5)	Total/NA	Solid	6010D	33090
620-17450-8 DU	Comp (5-10)	TCLP	Solid	6010D	33121

General Chemistry

Analysis Batch: 32837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-1	ATC-3 (0-5)	Total/NA	Solid	Moisture	
620-17450-2	ATC-3 (5-10)	Total/NA	Solid	Moisture	
620-17450-3	ATC-2 (0-5)	Total/NA	Solid	Moisture	
620-17450-4	ATC-2 (5-10)	Total/NA	Solid	Moisture	
620-17450-5	ATC-1 (0-5)	Total/NA	Solid	Moisture	
620-17450-6	ATC-1 (5-10)	Total/NA	Solid	Moisture	
620-17450-7	Comp (0-5)	Total/NA	Solid	Moisture	
620-17450-8	Comp (5-10)	Total/NA	Solid	Moisture	
620-17450-9	ATC-8 (0-5)	Total/NA	Solid	Moisture	
620-17450-10	ATC-8 (5-10)	Total/NA	Solid	Moisture	
620-17450-11	ATC-7 (0-5)	Total/NA	Solid	Moisture	
620-17450-12	ATC-7 (5-10)	Total/NA	Solid	Moisture	
620-17450-13	ATC-6 (0-5)	Total/NA	Solid	Moisture	
620-17450-14	ATC-6 (5-10)	Total/NA	Solid	Moisture	
MB 620-32837/1	Method Blank	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 32837 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-8 DU	Comp (5-10)	Total/NA	Solid	Moisture	

Analysis Batch: 32858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-15	ATC-4 (0-5)	Total/NA	Solid	Moisture	
620-17450-16	ATC-4 (5-10)	Total/NA	Solid	Moisture	
620-17450-17	ATC-5 (0-5)	Total/NA	Solid	Moisture	
620-17450-18	ATC-5 (5-10)	Total/NA	Solid	Moisture	
MB 620-32858/1	Method Blank	Total/NA	Solid	Moisture	
620-17450-15 DU	ATC-4 (0-5)	Total/NA	Solid	Moisture	

Leach Batch: 33195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Soluble	Solid	DI Leach	
620-17450-8	Comp (5-10)	Soluble	Solid	DI Leach	
MB 620-33195/1-A	Method Blank	Soluble	Solid	DI Leach	
620-17450-7 DU	Comp (0-5)	Soluble	Solid	DI Leach	

Analysis Batch: 33209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Soluble	Solid	SM 2510B	33195
620-17450-8	Comp (5-10)	Soluble	Solid	SM 2510B	33195
MB 620-33195/1-A	Method Blank	Soluble	Solid	SM 2510B	33195
LCDSRM 620-33209/3	Lab Control Sample Dup	Total/NA	Solid	SM 2510B	
LCSSRM 620-33209/2	Lab Control Sample	Total/NA	Solid	SM 2510B	
620-17450-7 DU	Comp (0-5)	Soluble	Solid	SM 2510B	33195

Analysis Batch: 33213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Soluble	Solid	9045D	33195
620-17450-8	Comp (5-10)	Soluble	Solid	9045D	33195
MB 620-33195/1-A	Method Blank	Soluble	Solid	9045D	33195
LCDSRM 620-33213/6	Lab Control Sample Dup	Total/NA	Solid	9045D	
LCSSRM 620-33213/5	Lab Control Sample	Total/NA	Solid	9045D	
620-17450-7 DU	Comp (0-5)	Soluble	Solid	9045D	33195

Analysis Batch: 485688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	1010A	
620-17450-8	Comp (5-10)	Total/NA	Solid	1010A	
LCS 410-485688/1	Lab Control Sample	Total/NA	Solid	1010A	
LCSD 410-485688/2	Lab Control Sample Dup	Total/NA	Solid	1010A	

Analysis Batch: 485914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	9060	
620-17450-8	Comp (5-10)	Total/NA	Solid	9060	
MB 410-485914/4	Method Blank	Total/NA	Solid	9060	
LCS 410-485914/3	Lab Control Sample	Total/NA	Solid	9060	
620-17450-7 MS	Comp (0-5)	Total/NA	Solid	9060	
620-17450-7 MSD	Comp (0-5)	Total/NA	Solid	9060	

QC Association Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

General Chemistry

Prep Batch: 486607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	7.3.4	
620-17450-8	Comp (5-10)	Total/NA	Solid	7.3.4	
MB 410-486607/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 410-486607/26-A	Lab Control Sample	Total/NA	Solid	7.3.4	
LCS 410-486607/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	
LCSD 410-486607/27-A	Lab Control Sample Dup	Total/NA	Solid	7.3.4	
LCSD 410-486607/3-A	Lab Control Sample Dup	Total/NA	Solid	7.3.4	

Analysis Batch: 486731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	9034	486607
620-17450-8	Comp (5-10)	Total/NA	Solid	9034	486607
MB 410-486607/1-A	Method Blank	Total/NA	Solid	9034	486607
LCS 410-486607/26-A	Lab Control Sample	Total/NA	Solid	9034	486607
LCSD 410-486607/27-A	Lab Control Sample Dup	Total/NA	Solid	9034	486607

Analysis Batch: 486903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	9012	486607
620-17450-8	Comp (5-10)	Total/NA	Solid	9012	486607
MB 410-486607/1-A	Method Blank	Total/NA	Solid	9012	486607
LCS 410-486607/2-A	Lab Control Sample	Total/NA	Solid	9012	486607
LCSD 410-486607/3-A	Lab Control Sample Dup	Total/NA	Solid	9012	486607

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-3 (0-5)
Lab Sample ID: 620-17450-1
Date Collected: 03/15/24 09:10
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-3 (0-5)
Lab Sample ID: 620-17450-1
Date Collected: 03/15/24 09:10
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/15/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 12:08

Client Sample ID: ATC-3 (5-10)
Lab Sample ID: 620-17450-2
Date Collected: 03/15/24 09:30
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-3 (5-10)
Lab Sample ID: 620-17450-2
Date Collected: 03/15/24 09:30
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/15/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 12:33

Client Sample ID: ATC-2 (0-5)
Lab Sample ID: 620-17450-3
Date Collected: 03/15/24 10:15
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-2 (0-5)
Lab Sample ID: 620-17450-3
Date Collected: 03/15/24 10:15
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/15/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 12:58

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-2 (5-10)
Lab Sample ID: 620-17450-4
Date Collected: 03/15/24 11:00
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-2 (5-10)
Lab Sample ID: 620-17450-4
Date Collected: 03/15/24 11:00
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/15/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 13:23

Client Sample ID: ATC-1 (0-5)
Lab Sample ID: 620-17450-5
Date Collected: 03/15/24 11:20
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-1 (0-5)
Lab Sample ID: 620-17450-5
Date Collected: 03/15/24 11:20
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/15/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 13:49

Client Sample ID: ATC-1 (5-10)
Lab Sample ID: 620-17450-6
Date Collected: 03/15/24 11:30
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-1 (5-10)
Lab Sample ID: 620-17450-6
Date Collected: 03/15/24 11:30
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/15/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 14:14

Client Sample ID: Comp (0-5)
Lab Sample ID: 620-17450-7

Date Collected: 03/15/24 12:00
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			32864	MEM	EET NE	03/19/24 10:35 - 03/20/24 09:30 [1]
TCLP	Prep	3010A			33121	JPC	EET NE	03/26/24 15:40
TCLP	Analysis	6010D		1	33178	JPC	EET NE	03/27/24 13:47
Total/NA	Analysis	1010A		1	485688	USAE	ELLE	03/21/24 10:01 - 03/21/24 10:01 [1]
Total/NA	Prep	7.3.4			486607	USE1	ELLE	03/25/24 08:25
Total/NA	Analysis	9012		1	486903	JCG7	ELLE	03/25/24 17:06
Total/NA	Prep	7.3.4			486607	USE1	ELLE	03/25/24 08:25
Total/NA	Analysis	9034		1	486731	USE1	ELLE	03/25/24 12:45
Soluble	Leach	DI Leach			33195	ODO	EET NE	03/28/24 10:08
Soluble	Analysis	9045D		1	33213	ODO	EET NE	03/28/24 11:32
Total/NA	Analysis	9060		1	485914	P684	ELLE	03/21/24 13:08
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42
Soluble	Leach	DI Leach			33195	ODO	EET NE	03/28/24 10:08
Soluble	Analysis	SM 2510B		1	33209	ODO	EET NE	03/28/24 11:04

Client Sample ID: Comp (0-5)
Lab Sample ID: 620-17450-7

Date Collected: 03/15/24 12:00
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			32927	JAC	EET NE	03/21/24 08:36
Total/NA	Analysis	8270D		1	32951	JS	EET NE	03/21/24 15:49
Total/NA	Prep	3546			32927	JAC	EET NE	03/21/24 08:36
Total/NA	Analysis	8270D_LL_PAH		1	32952	JS	EET NE	03/21/24 15:49
Total/NA	Prep	3540C			32873	JAC	EET NE	03/19/24 14:48
Total/NA	Analysis	8082		1	32987	BMH	EET NE	03/21/24 23:56
Total/NA	Prep	3546			32878	JAC	EET NE	03/19/24 17:07
Total/NA	Analysis	8100		1	32965	JS	EET NE	03/21/24 15:35
Total/NA	Prep	3050B			33090	PRB	EET NE	03/26/24 08:24
Total/NA	Analysis	6010D		2	33178	JPC	EET NE	03/27/24 14:54
Total/NA	Prep	7471B			32865	PRB	EET NE	03/19/24 11:28
Total/NA	Analysis	7471A		1	32883	PRB	EET NE	03/19/24 15:44

Client Sample ID: Comp (5-10)
Lab Sample ID: 620-17450-8

Date Collected: 03/15/24 12:15
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			32864	MEM	EET NE	03/19/24 10:35 - 03/20/24 09:30 [1]
TCLP	Prep	3010A			33121	JPC	EET NE	03/26/24 15:40
TCLP	Analysis	6010D		1	33178	JPC	EET NE	03/27/24 13:23
Total/NA	Analysis	1010A		1	485688	USAE	ELLE	03/21/24 10:01 - 03/21/24 10:01 [1]
Total/NA	Prep	7.3.4			486607	USE1	ELLE	03/25/24 08:25
Total/NA	Analysis	9012		1	486903	JCG7	ELLE	03/25/24 17:07

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: Comp (5-10)
Lab Sample ID: 620-17450-8
Date Collected: 03/15/24 12:15
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7.3.4			486607	USE1	ELLE	03/25/24 08:25
Total/NA	Analysis	9034		1	486731	USE1	ELLE	03/25/24 12:45
Soluble	Leach	DI Leach			33195	ODO	EET NE	03/28/24 10:08
Soluble	Analysis	9045D		1	33213	ODO	EET NE	03/28/24 11:32
Total/NA	Analysis	9060		1	485914	P684	ELLE	03/21/24 13:29
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42
Soluble	Leach	DI Leach			33195	ODO	EET NE	03/28/24 10:08
Soluble	Analysis	SM 2510B		1	33209	ODO	EET NE	03/28/24 11:04

Client Sample ID: Comp (5-10)
Lab Sample ID: 620-17450-8
Date Collected: 03/15/24 12:15
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			32927	JAC	EET NE	03/21/24 08:36
Total/NA	Analysis	8270D		1	32951	JS	EET NE	03/21/24 16:14
Total/NA	Prep	3546			32927	JAC	EET NE	03/21/24 08:36
Total/NA	Analysis	8270D_LL_PAH		1	32952	JS	EET NE	03/21/24 16:14
Total/NA	Prep	3540C			32873	JAC	EET NE	03/19/24 14:48
Total/NA	Analysis	8082		1	32987	BMH	EET NE	03/22/24 00:14
Total/NA	Prep	3546			32878	JAC	EET NE	03/19/24 17:07
Total/NA	Analysis	8100		1	32965	JS	EET NE	03/21/24 15:57
Total/NA	Prep	3050B			33090	PRB	EET NE	03/26/24 08:24
Total/NA	Analysis	6010D		2	33178	JPC	EET NE	03/27/24 15:18
Total/NA	Prep	7471B			32865	PRB	EET NE	03/19/24 11:28
Total/NA	Analysis	7471A		1	32883	PRB	EET NE	03/19/24 15:46

Client Sample ID: ATC-8 (0-5)
Lab Sample ID: 620-17450-9
Date Collected: 03/14/24 10:00
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-8 (0-5)
Lab Sample ID: 620-17450-9
Date Collected: 03/14/24 10:00
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 14:40

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-8 (5-10)
Lab Sample ID: 620-17450-10
Date Collected: 03/14/24 11:50
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-8 (5-10)
Lab Sample ID: 620-17450-10
Date Collected: 03/14/24 11:50
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 15:06

Client Sample ID: ATC-7 (0-5)
Lab Sample ID: 620-17450-11
Date Collected: 03/14/24 11:10
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-7 (0-5)
Lab Sample ID: 620-17450-11
Date Collected: 03/14/24 11:10
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 15:31

Client Sample ID: ATC-7 (5-10)
Lab Sample ID: 620-17450-12
Date Collected: 03/14/24 12:10
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-7 (5-10)
Lab Sample ID: 620-17450-12
Date Collected: 03/14/24 12:10
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 15:57

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-6 (0-5)
Lab Sample ID: 620-17450-13
Date Collected: 03/14/24 12:30
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-6 (0-5)
Lab Sample ID: 620-17450-13
Date Collected: 03/14/24 12:30
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 16:24

Client Sample ID: ATC-6 (5-10)
Lab Sample ID: 620-17450-14
Date Collected: 03/14/24 12:45
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-6 (5-10)
Lab Sample ID: 620-17450-14
Date Collected: 03/14/24 12:45
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 16:50

Client Sample ID: ATC-4 (0-5)
Lab Sample ID: 620-17450-15
Date Collected: 03/14/24 13:40
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32858	MEM	EET NE	03/19/24 09:21

Client Sample ID: ATC-4 (0-5)
Lab Sample ID: 620-17450-15
Date Collected: 03/14/24 13:40
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 17:15

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-4 (5-10)
Lab Sample ID: 620-17450-16
Date Collected: 03/14/24 13:55
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32858	MEM	EET NE	03/19/24 09:21

Client Sample ID: ATC-4 (5-10)
Lab Sample ID: 620-17450-16
Date Collected: 03/14/24 13:55
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 17:41

Client Sample ID: ATC-5 (0-5)
Lab Sample ID: 620-17450-17
Date Collected: 03/14/24 14:25
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32858	MEM	EET NE	03/19/24 09:21

Client Sample ID: ATC-5 (0-5)
Lab Sample ID: 620-17450-17
Date Collected: 03/14/24 14:25
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 18:07

Client Sample ID: ATC-5 (5-10)
Lab Sample ID: 620-17450-18
Date Collected: 03/14/24 12:10
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32858	MEM	EET NE	03/19/24 09:21

Client Sample ID: ATC-5 (5-10)
Lab Sample ID: 620-17450-18
Date Collected: 03/14/24 12:10
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 18:33

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Laboratory: Eurofins New England

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6010D	3010A	Solid	Lead
6010D	3050B	Solid	Arsenic
6010D	3050B	Solid	Barium
6010D	3050B	Solid	Cadmium
6010D	3050B	Solid	Chromium
6010D	3050B	Solid	Lead
6010D	3050B	Solid	Selenium
6010D	3050B	Solid	Silver
7471A	7471B	Solid	Mercury
8082	3540C	Solid	PCB-1016
8082	3540C	Solid	PCB-1221
8082	3540C	Solid	PCB-1232
8082	3540C	Solid	PCB-1242
8082	3540C	Solid	PCB-1248
8082	3540C	Solid	PCB-1254
8082	3540C	Solid	PCB-1260
8082	3540C	Solid	PCB-1262
8082	3540C	Solid	PCB-1268
8100	3546	Solid	TEPH (C9-C36)
8260C	5035	Solid	1,1,1,2-Tetrachloroethane
8260C	5035	Solid	1,1,1-Trichloroethane
8260C	5035	Solid	1,1,2,2-Tetrachloroethane
8260C	5035	Solid	1,1,2-Trichloroethane
8260C	5035	Solid	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C	5035	Solid	1,1-Dichloroethane
8260C	5035	Solid	1,1-Dichloroethene
8260C	5035	Solid	1,1-Dichloropropene
8260C	5035	Solid	1,2,3-Trichlorobenzene
8260C	5035	Solid	1,2,3-Trichloropropane
8260C	5035	Solid	1,2,4-Trichlorobenzene
8260C	5035	Solid	1,2,4-Trimethylbenzene
8260C	5035	Solid	1,2-Dibromo-3-Chloropropane
8260C	5035	Solid	1,2-Dibromoethane (EDB)
8260C	5035	Solid	1,2-Dichlorobenzene
8260C	5035	Solid	1,2-Dichloroethane
8260C	5035	Solid	1,2-Dichloropropane
8260C	5035	Solid	1,3,5-Trichlorobenzene
8260C	5035	Solid	1,3,5-Trimethylbenzene
8260C	5035	Solid	1,3-Dichlorobenzene
8260C	5035	Solid	1,3-Dichloropropane
8260C	5035	Solid	1,3-Dichloropropene, Total
8260C	5035	Solid	1,4-Dichlorobenzene
8260C	5035	Solid	1,4-Dioxane
8260C	5035	Solid	2,2-Dichloropropane
8260C	5035	Solid	2-Butanone (MEK)

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C	5035	Solid	2-Chlorotoluene
8260C	5035	Solid	2-Hexanone (MBK)
8260C	5035	Solid	4-Chlorotoluene
8260C	5035	Solid	4-Isopropyltoluene
8260C	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260C	5035	Solid	Acetone
8260C	5035	Solid	Acrylonitrile
8260C	5035	Solid	Benzene
8260C	5035	Solid	Bromobenzene
8260C	5035	Solid	Bromochloromethane
8260C	5035	Solid	Bromodichloromethane
8260C	5035	Solid	Bromoform
8260C	5035	Solid	Bromomethane
8260C	5035	Solid	Carbon disulfide
8260C	5035	Solid	Carbon tetrachloride
8260C	5035	Solid	Chlorobenzene
8260C	5035	Solid	Chloroethane
8260C	5035	Solid	Chloroform
8260C	5035	Solid	Chloromethane
8260C	5035	Solid	cis-1,2-Dichloroethene
8260C	5035	Solid	cis-1,3-Dichloropropene
8260C	5035	Solid	Dibromochloromethane
8260C	5035	Solid	Dibromomethane
8260C	5035	Solid	Dichlorodifluoromethane (Freon 12)
8260C	5035	Solid	di-Isopropyl ether
8260C	5035	Solid	Ethanol
8260C	5035	Solid	Ethyl ether
8260C	5035	Solid	Ethyl tert-butyl ether
8260C	5035	Solid	Ethylbenzene
8260C	5035	Solid	Hexachlorobutadiene
8260C	5035	Solid	Isopropylbenzene
8260C	5035	Solid	m,p-Xylene
8260C	5035	Solid	Methyl tert-butyl ether
8260C	5035	Solid	Methylene Chloride
8260C	5035	Solid	Naphthalene
8260C	5035	Solid	n-Butylbenzene
8260C	5035	Solid	N-Propylbenzene
8260C	5035	Solid	o-Xylene
8260C	5035	Solid	sec-Butylbenzene
8260C	5035	Solid	Styrene
8260C	5035	Solid	Tert-amyl methyl ether
8260C	5035	Solid	tert-Butanol
8260C	5035	Solid	tert-Butylbenzene
8260C	5035	Solid	Tetrachloroethene
8260C	5035	Solid	Tetrahydrofuran
8260C	5035	Solid	Toluene
8260C	5035	Solid	trans-1,2-Dichloroethene

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C	5035	Solid	trans-1,3-Dichloropropene
8260C	5035	Solid	trans-1,4-Dichloro-2-butene
8260C	5035	Solid	Trichloroethene
8260C	5035	Solid	Trichlorofluoromethane (Freon 11)
8260C	5035	Solid	Vinyl chloride
8260C	5035	Solid	Xylenes, Total
8270D	3546	Solid	1,2,4,5-Tetrachlorobenzene
8270D	3546	Solid	1,2,4-Trichlorobenzene
8270D	3546	Solid	1,2-Dichlorobenzene
8270D	3546	Solid	1,3-Dichlorobenzene
8270D	3546	Solid	1,4-Dichlorobenzene
8270D	3546	Solid	2,4,5-Trichlorophenol
8270D	3546	Solid	2,4,6-Trichlorophenol
8270D	3546	Solid	2,4-Dichlorophenol
8270D	3546	Solid	2,4-Dimethylphenol
8270D	3546	Solid	2,4-Dinitrophenol
8270D	3546	Solid	2,4-Dinitrotoluene
8270D	3546	Solid	2,6-Dinitrotoluene
8270D	3546	Solid	2-Chloronaphthalene
8270D	3546	Solid	2-Chlorophenol
8270D	3546	Solid	2-Methylphenol
8270D	3546	Solid	2-Nitroaniline
8270D	3546	Solid	2-Nitrophenol
8270D	3546	Solid	3 & 4 Methylphenol
8270D	3546	Solid	3,3'-Dichlorobenzidine
8270D	3546	Solid	3-Nitroaniline
8270D	3546	Solid	4,6-Dinitro-2-methylphenol
8270D	3546	Solid	4-Bromophenyl phenyl ether
8270D	3546	Solid	4-Chloro-3-methylphenol
8270D	3546	Solid	4-Chloroaniline
8270D	3546	Solid	4-Chlorophenyl phenyl ether
8270D	3546	Solid	4-Nitroaniline
8270D	3546	Solid	4-Nitrophenol
8270D	3546	Solid	Acetophenone
8270D	3546	Solid	Aniline
8270D	3546	Solid	Azobenzene/Diphenyldiazene
8270D	3546	Solid	Benzidine
8270D	3546	Solid	Benzoic acid
8270D	3546	Solid	Benzyl alcohol
8270D	3546	Solid	bis (2-chloroisopropyl) ether
8270D	3546	Solid	Bis(2-chloroethoxy)methane
8270D	3546	Solid	Bis(2-chloroethyl)ether
8270D	3546	Solid	Bis(2-ethylhexyl) phthalate
8270D	3546	Solid	Butyl benzyl phthalate
8270D	3546	Solid	Carbazole
8270D	3546	Solid	Dibenzofuran
8270D	3546	Solid	Diethyl phthalate

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3546	Solid	Dimethyl phthalate
8270D	3546	Solid	Di-n-butyl phthalate
8270D	3546	Solid	Di-n-octyl phthalate
8270D	3546	Solid	Hexachlorobenzene
8270D	3546	Solid	Hexachlorobutadiene
8270D	3546	Solid	Hexachlorocyclopentadiene
8270D	3546	Solid	Hexachloroethane
8270D	3546	Solid	Isophorone
8270D	3546	Solid	Nitrobenzene
8270D	3546	Solid	N-Nitrosodimethylamine
8270D	3546	Solid	N-Nitrosodi-n-propylamine
8270D	3546	Solid	N-Nitrosodiphenylamine
8270D	3546	Solid	Pentachloronitrobenzene
8270D	3546	Solid	Pentachlorophenol
8270D	3546	Solid	Phenol
8270D	3546	Solid	Pyridine
8270D_LL_PAH	3546	Solid	1-Methylnaphthalene
8270D_LL_PAH	3546	Solid	2-Methylnaphthalene
8270D_LL_PAH	3546	Solid	Acenaphthene
8270D_LL_PAH	3546	Solid	Acenaphthylene
8270D_LL_PAH	3546	Solid	Anthracene
8270D_LL_PAH	3546	Solid	Benzo[a]anthracene
8270D_LL_PAH	3546	Solid	Benzo[a]pyrene
8270D_LL_PAH	3546	Solid	Benzo[b]fluoranthene
8270D_LL_PAH	3546	Solid	Benzo[g,h,i]perylene
8270D_LL_PAH	3546	Solid	Benzo[k]fluoranthene
8270D_LL_PAH	3546	Solid	Bis(2-ethylhexyl) phthalate
8270D_LL_PAH	3546	Solid	Chrysene
8270D_LL_PAH	3546	Solid	Dibenz(a,h)anthracene
8270D_LL_PAH	3546	Solid	Fluoranthene
8270D_LL_PAH	3546	Solid	Fluorene
8270D_LL_PAH	3546	Solid	Indeno[1,2,3-cd]pyrene
8270D_LL_PAH	3546	Solid	Naphthalene
8270D_LL_PAH	3546	Solid	Phenanthrene
8270D_LL_PAH	3546	Solid	Pyrene
9045D		Solid	pH
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids
SM 2510B		Solid	Specific Conductance

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24

Accreditation/Certification Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	43200	01-31-25
Alaska	State	PA00009	06-30-24
Alaska (UST)	State	17-027	02-28-25
Arizona	State	AZ0780	03-12-25
Arkansas DEQ	State	88-00660	08-09-24
California	State	2792	11-30-24
Colorado	State	PA00009	06-30-24
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-25
Delaware (DW)	State	N/A	01-31-25
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-25
Hawaii	State	N/A	01-31-25
Illinois	NELAP	200027	01-31-25
Iowa	State	361	03-01-24 *
Kansas	NELAP	E-10151	10-31-24
Kentucky (DW)	State	KY90088	12-31-24
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23 *
Louisiana (All)	NELAP	02055	06-30-24
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-24
Massachusetts	State	M-PA009	06-30-24
Michigan	State	9930	01-31-25
Minnesota	NELAP	042-999-487	12-31-24
Mississippi	State	023	01-31-25
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-25
New Hampshire	NELAP	2730	01-10-25
New Jersey	NELAP	PA011	06-30-24
New York	NELAP	10670	03-31-24
North Carolina (DW)	State	42705	07-31-24
North Carolina (WW/SW)	State	521	12-31-24
Oklahoma	NELAP	9804	08-31-24
Oregon	NELAP	PA200001	09-11-24
Pennsylvania	NELAP	36-00037	01-28-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-24
Rhode Island	State	LAO00338	12-30-24
South Carolina	State	89002	01-31-24 *
Tennessee	State	02838	01-31-25
Texas	NELAP	T104704194-23-46	08-31-24
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-24
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-24
West Virginia (DW)	State	9906 C	01-31-25
West Virginia DEP	State	055	07-31-24
Wyoming	State	8TMS-L	01-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	EET NE
8270D	Semivolatile Organic Compounds (GC/MS)	MA DEP	EET NE
8270D_LL_PAH	Semivolatile Organic Compounds (GC/MS) Low level PAH	SW846	EET NE
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
8100	Polynuclear Aromatic Hydrocarbons (PAHs) (GC)	SW846	EET NE
6010D	Metals (ICP)	SW846	EET NE
7471A	Mercury (CVAA)	SW846	EET NE
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	ELLE
9012	Cyanide, Reactive	SW846	ELLE
9034	Sulfide, Reactive	SW846	ELLE
9045D	pH	SW846	EET NE
9060	Organic Carbon, Total (TOC)	SW846	ELLE
Moisture	Percent Moisture	EPA	EET NE
SM 2510B	Conductivity, Specific Conductance	SM	EET NE
1311	TCLP Extraction	SW846	EET NE
3010A	Preparation, Total Metals	SW846	EET NE
3050B	Preparation, Metals	SW846	EET NE
3540C	Soxhlet Extraction	SW846	EET NE
3546	Microwave Extraction	SW846	EET NE
5035	Closed System Purge and Trap	SW846	EET NE
7.3.3	Cyanide, Reactive	SW846	ELLE
7.3.4	Sulfide, Reactive	SW846	ELLE
7471B	Preparation, Mercury	SW846	EET NE
DI Leach	Deionized Water Leaching Procedure	ASTM	EET NE
Frozen Preserve	Freezing Samples	None	EET NE

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
MA DEP = Massachusetts Department Of Environmental Protection
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-17450-1	ATC-3 (0-5)	Solid	03/15/24 09:10	03/18/24 15:25
620-17450-2	ATC-3 (5-10)	Solid	03/15/24 09:30	03/18/24 15:25
620-17450-3	ATC-2 (0-5)	Solid	03/15/24 10:15	03/18/24 15:25
620-17450-4	ATC-2 (5-10)	Solid	03/15/24 11:00	03/18/24 15:25
620-17450-5	ATC-1 (0-5)	Solid	03/15/24 11:20	03/18/24 15:25
620-17450-6	ATC-1 (5-10)	Solid	03/15/24 11:30	03/18/24 15:25
620-17450-7	Comp (0-5)	Solid	03/15/24 12:00	03/18/24 15:25
620-17450-8	Comp (5-10)	Solid	03/15/24 12:15	03/18/24 15:25
620-17450-9	ATC-8 (0-5)	Solid	03/14/24 10:00	03/18/24 15:25
620-17450-10	ATC-8 (5-10)	Solid	03/14/24 11:50	03/18/24 15:25
620-17450-11	ATC-7 (0-5)	Solid	03/14/24 11:10	03/18/24 15:25
620-17450-12	ATC-7 (5-10)	Solid	03/14/24 12:10	03/18/24 15:25
620-17450-13	ATC-6 (0-5)	Solid	03/14/24 12:30	03/18/24 15:25
620-17450-14	ATC-6 (5-10)	Solid	03/14/24 12:45	03/18/24 15:25
620-17450-15	ATC-4 (0-5)	Solid	03/14/24 13:40	03/18/24 15:25
620-17450-16	ATC-4 (5-10)	Solid	03/14/24 13:55	03/18/24 15:25
620-17450-17	ATC-5 (0-5)	Solid	03/14/24 14:25	03/18/24 15:25
620-17450-18	ATC-5 (5-10)	Solid	03/14/24 12:10	03/18/24 15:25

620-17450 Chain of Custody

17450

CHAIN OF CUSTODY RECORD

Page 1 of 2

Special Handling:

- ☑ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed _____

All TATs subject to laboratory approval
Min 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: Atlas Technical Consultants LLC
10 State Street, Suite 100
Woburn, MA 01801
Telephone #: 781-404-1431
Project Mgr: Stephan Landry

Invoice To: Atlas
P O No: _____ Quote #: _____

Project No: 6000007464
Site Name: Tufts Street Improvement
Location: Tuftsd St., Somerville MA State: MA
Sampler(s): Eric Marchese

F=Field Filtered 1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= Iced 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= _____ X2= _____ X3= _____

G= Grab C=Composite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	8260 Low Level	Analysis: GUC (unusual CIMS) 8270	PCB 8082	RCRA 8 Metals TCLP Pb	TPH 8100	PH & total organic cyanide	Flashpoint Conductivity	Reactivity cyanide & sulfide	Check if chlorinated
-1	ATC-3 (0-5)	3/15/24	0910	G	SO	3			1	X								☐
-2	ATC-3 (5-10)		0930						1									☐
-3	ATC-2 (0-5)		1015						1									☐
-4	ATC-2 (5-10)		1100						1									☐
-5	ATC-1 (0-5)		1120						1									☐
-6	ATC-1 (5-10)		1130						1									☐
																		☐
-7	Comp (0-5)		1200	C	SO		4				X	X	X	X	X	X	X	☐
-8	Comp (5-10)		1215	C	SO		4				X	X	X	X	X	X	X	☐
																		☐

List Preservative Code below: 7,9 | 11 | 11 | 11 | 11 | 11 | 11 | 11

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☑ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☑ No
☑ Standard ☐ No QC ☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☑ Other: MassDEP S-1
State-specific reporting standards

Relinquished by:	Received by:	Date:	Time:
Eric Marchese	Atlas Fridge	3/15/24	1500
		3/18/24	1240
		3/18/24	1828

Temp °C: Observed 4.2 | Correction Factor +0.2 | Corrected 4.4 | IR ID # 6

☑ EDD format: Stephan.Landry@oneatlas.com
☑ E-mail to: Stephan.Landry@oneatlas.com
DI Samples frozen 3/14/24 at 1500 3/15/24 at 1500

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Sample shipping address: 11 Almgren Drive • Agawam, MA 01001 • 413-789-9018 • www.EurofinsUS.com/Spectrum

Rev. Nov 2016

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4/3/2024 (Rev. 1)

17450

eurofins | Spectrum Analytical

CHAIN OF CUSTODY RECORD

Page 2 of 2

Special Handling:

- ☑ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed _____

All TATs subject to laboratory approval
Min 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: Atlas Technical Consultants LLC
10 State Street, Suite 100
Woburn, MA 01801
Telephone #: 781-404-1431
Project Mgr: Stephan Landry

Invoice To: Atlas
P O No: _____ Quote #: _____

Project No: 6000007464
Site Name: Tufts Street Improvement
Location: Tuftsd St., Somerville MA State: MA
Sampler(s): Eric Marchese

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= iced 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= _____ X2= _____ X3= _____

G= Grab C=Compsite

List Preservative Code below: 7,9

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☑ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☑ No
☑ Standard ☐ No QC ☐ DQA* ☐ ASP A* ☐ ASP B* ☐ NJ Reduced* ☐ NJ Full* ☐ Tier II* ☐ Tier IV*
☑ Other: MassDEP S-1
State-specific reporting standards

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	8260 Low Level	Check if chlorinated
-9	ATC-9 (0-5)	3-14-24	1000	G	SO	3			1	X	☐
-10	ATC-8 (5-10)		1150			1			1		☐
-11	ATC-7 (0-5)		1110			1			1		☐
-12	ATC-7 (5-10)		1210			1			1		☐
-13	ATC-6 (0-5)		1230			1			1		☐
-14	ATC-6 (5-10)		1245			1			1		☐
-15	ATC-64 (0-5)		1340			1			1		☐
-16	ATC-4 (5-10)		1355			1			1		☐
-17	ATC-5 (0-5)		1425			1			1		☐
-18	ATC 5 (5-10)		1510			1			1		☐

Relinquished by:	Received by:	Date:	Time:	Temp °C
Eric Marchese	Atlas Fridge	3/15/24	1500	Observed 4.2
Ken Fox		3/18/24	1240	Correction Factor -0.2
		3/18/24	1525	Corrected 4.4
				IR ID # 6

☑ EDD format. Stephan.Landry@oneatlas com
☑ E-mail to Stephan.Landry@oneatlas com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☑ Refrigerated ☑ DI VOA Frozen ☐ Soil Jar Frozen

4/3/2024 (Rev. 1)

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018 Fax: 413-506-3830

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-13903.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-17450-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/25/2024			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Tufts Street Improvement - Somerville, M	Project #: 62002926			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1010A/ Flashpoint	9060	9012_ReactiveCN/7.3.3	9034_Reactive/7.3.4	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
Comp (0-5) (620-17450-7)	3/15/24	12:00 Eastern		Solid			X	X	X	X	1	
Comp (5-10) (620-17450-8)	3/15/24	12:15 Eastern		Solid			X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/18/24 16:59	ECC			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/19/24 1055	Company ECC

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: Raw 1.8- COR 1.6

Ver: 06/08/2021

MB

Login Sample Receipt Checklist

Client: Atlas Technical Consultants LLC

Job Number: 620-17450-1

Login Number: 17450
List Number: 1
Creator: Scott, Krishnan F

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Atlas Technical Consultants LLC

Job Number: 620-17450-1

Login Number: 17450
List Number: 2
Creator: Ballard, Megan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 03/19/24 12:15 PM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

Massachusetts Department of Environmental Protection

eDEP Transaction Copy

Here is the file you requested for your records.

To retain a copy of this file you must save and/or print.

Username:	**MGITTEN**
Transaction ID:	**1896047**
Document:	**BWSC126 Miscellaneous Document Transmittal Form**
Size of File:	**161.13K**
Status of Transaction:	**In Process**
Date and Time Created:	**5/14/2025:1:54:06 PM**

Note: This file only includes forms that were part of your transaction as of the date and time indicated above. If you need a more current copy of your transaction, return to eDEP and select to “Download a Copy” from the Current Submittals page.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

Miscellaneous Document Transmittal Form

BWSC 126

Release Tracking Number
3 - 51811

A. DISPOSAL SITE LOCATION:

1. Disposal Site Name: URAM
2. Street Address: 50 TUFTS STREET
3. City/Town: SOMERVILLE 4. Zip Code: 021450000

B. THIS FORM IS BEING USED TO: (check all that apply)

☐ 1. Correct typographical errors and/or make corrections that do not materially affect the nature or complexity of the response actions. If changes are materially significant, then a revised or modified submittal must be made to the Department. List the report/form that is being corrected that is associated with the above Release Tracking Number (RTN). Attach an errata sheet containing a description of the errors and/or corrections.

Form/Report | Submittal Date(mm/dd/yyyy) | Transaction ID

_____ _____ _____

☐ 2. Submit other documents associated with this RTN that cannot be submitted to the Department using any other BWSC transmittal form. Do not submit documents that are of a time-critical nature and/or that require a direct response from the Department and/or that require an LSP Opinion pursuant to 310 CMR 40.0015. (Section C is not required).

Description of Submittal _____

☐ 3. Resign as LSP-of-Record for the above Release Tracking Number (RTN). Attach a copy of the LSP resignation letter. (Section D, E, and F are not required).

☐ 4. Submit copies of Public Notices required pursuant to 310 CMR 40.1400: (check all that apply)
(Section C is not required)

- ☐ a. Tier I Classification — ☐ Check here if submitting a copy of a legal notice
- ☐ b. Tier II Classification — ☐ Check here if submitting a copy of a legal notice
- ☐ c. Immediate Response Action (IRA)
- ☐ d. Release Abatement Measure (RAM)
- ☐ e. Downgradient Property Status (DPS)
- ☐ f. Utility-related Abatement Measure (URAM)
- ☐ g. Comprehensive Response Actions
- ☐ h. Activities related to recording/registering an Activity and Use Limitation (AUL) — ☐ Check here if submitting a copy of a legal notice
- ☐ i. Permanent or Temporary Solution

DRAFT COPY

(All sections of this transmittal form must be filled out unless otherwise noted)

B. THIS FORM IS BEING USED TO(cont.): (check all that apply)

☐ 5. Submit Public Involvement Petition documents. (check all that apply). (Section C is not required).

- ☐ a. Submit a Public Involvement Petition
- ☐ b. Submit a Public Involvement Petition Retraction
- ☐ c. Submit a Positive Public Involvement Petition Designation Letter
- ☐ d. Submit a Negative Public Involvement Designation Letter
- ☐ e. Submit a Draft Public Involvement Petition Plan
- ☐ f. Submit a Revised Public Involvement Petition Plan
- ☐ g. Submit a Final Public Involvement Petition Plan
- ☐ h. Submit a Notice of Public Comment Period

  Date of Close of Comment Period : _____ (mm/dd/yyyy)
- ☐ i. Submit a copy of a Public Involvement Petition legal notice
- ☐ j. Submit a Notice of Public Meeting

  Meeting Date: _____ (mm/dd/yyyy)
- ☐ k. Submit one Public Involvement Petition related documents not specified above:

  Describe: _____

DRAFT COPY

☑ 6. Submit a RCRA Contained-In Determination document that soil and/or groundwater is no longer considered a hazardous waste pursuant to state (310 CMR 30.00) and federal (Title 40, Chapter I, Part 261 of the Code of Federal Regulations) hazardous waste regulations.

☐ 7. Submit notification and documentation of Reclamation Soil Reuse pursuant to 310 CMR 40.0031(2).

C. LSP SIGNATURE:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #: 7505
2. First Name: MICHAEL S 3. Last Name: GITTEN
4. Telephone: 7814041439 5. Ext.: _____ 6. Email: michael.gitten@oneatlas.com
7. Signature: _____
8. Date: _____ (mm/dd/yyyy)

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

Miscellaneous Document Transmittal Form

BWSC 126

Release Tracking Number
3 - 51811

D. PERSON MAKING A SUBMITTAL:

1. Check all that apply: ☐ a. Change in contact name ☐ b. Change of address ☐ c. Change in person undertaking response actions

2. Name of Organization: CITY OF SOMERVILLE

3. Contact First Name: COLIN 4. Last Name: ZEIGLER

5. Street: 1 FRANEY RD 6. Title: ENVIRONMENTAL HEALTH COORDINATOR

7. City/Town: SOMERVILLE 8. State: MA 9. ZIP Code: 021450000

10. Telephone: 6176256600 11. Ext.: 12. Email: czeigler@somervillema.gov

☐ 13. Check here if the person is a Public Involvement Petitioner

E. RELATIONSHIP TO SITE OF PERSON MAKING SUBMITTAL:

☑ Check here to change relationship

☐ 1. RP or PRP ☐ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter ☐ e. Other RP or PRP Specify:

☐ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c.21E, s.2)

☑ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c.21E, s.5(j))

☐ 4. Any Other Person Undertaking Response Actions Specify Relationship:

F. CERTIFICATION OF PERSON MAKING SUBMITTAL:

DRAFT COPY

1. I, _____, st under the pains and penalties or perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: _____ 3. Title: ENVIRONMENTAL HEALTH COORDINATOR
Signature

4. For: CITY OF SOMERVILLE 5. Date:
(Name of person or entity recorded in Section D) mm/dd/yyyy

☐ 6. Check here if the address of the person providing certification is different from address recorded in Section D.

7. Street:

8. City/Town: 9. State: 10. ZIP Code:

11. Telephone: 12. Ext.: 13. Email:

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

Miscellaneous Document Transmittal Form

BWSC 126

Release Tracking Number
3 - 51811

☐ Check here if any non-updatable information provided on this form is incorrect, e. g. property address. Send corrections to BWSC.eDEP@state.ma.us

YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY):

DRAFT COPY

10 State Street, Suite 100
Woburn, MA 01801
781-932.9400 | oneatlas.com

May 16, 2025

Ms. Rebecca Wright, P.E.
Senior Project Manager of Streetscapes
Engineering Department
CITY OF SOMERVILLE
1 Franey Road
Somerville, Massachusetts 02145

via email: rwright@somervillema.gov

Subject: **Utility-Related Abatement Measure Notification Report**
Tufts Street Improvements Project
Tufts Street
Somerville, MA
RTN 3-51811
Atlas Project No. 6000007464

Dear Ms. Wright:

On behalf of the City of Somerville, Atlas Technical Consultants LLC (Atlas) has prepared this Utility-Release Abatement Measure (URAM) Notification letter to provide the material facts, data, and related information for the upcoming Tufts Street Improvements Project to meet the requirements of the Massachusetts Contingency Plan (MCP) at 310 CMR 40.0460. The URAM will support subsurface work taking place within the MCP Disposal Site boundary associated with Release Tracking Number (RTN) 3-23246. The project limits are shown on attached **Drawing 1** from the project's Contract Documents.

Atlas orally notified the Massachusetts Department of Environmental Protection (MassDEP) at approximately 1:30 PM on May 9, 2025, of the plan to manage soil and groundwater within the Disposal Site for RTN 3-23246 as a URAM for the City of Somerville. The MassDEP assigned RTN 3-51811 for URAM activities.

PROJECT BACKGROUND

The City of Somerville Tufts Street Improvement Project is to implement traffic calming and accessibility improvements that will reconstruct sidewalks, install new raised stormwater inlets drains and other stormwater system enhancements to improve the current stormwater management system, and repave Tufts Street between Cross Street and Washington Street as part of the City's Pavement and Sidewalk Management Program. Most excavations will be limited to 3 feet below grade with some excavations for stormwater management components extending to 5 feet below grade. Groundwater has been observed to range from approximately 7 to 13 feet below grade in the majority of the area where excavation will occur. To the extent practicable, soil will be reused in the area from which it is excavated. If groundwater needs to be managed, it will be recharged to the work area it came from. The limit of work is shown on attached **Figures 1 and 2.**

Based upon the volume of soil to be managed during the URAM, the City of Somerville has engaged Atlas to provide MCP compliance and associated Licensed Site Professional Services for this project. Michael Gitten, LSP, PE is the LSP of record for the URAM.

Most work is located within the Disposal Site listed by the MassDEP under RTN 3-23246. **Figure 1** shows the northern extent of the Disposal Site as it relates to limits of work and all the proposed work shown on **Figure 2** is within the Disposal Site. This Disposal Site is associated with a release of tetrachloroethylene, also known as perchloroethylene (PCE), to soil and groundwater from a former chemical warehouse located at the abutting 50 Tufts Street property. Based upon a review of reports submitted to the MassDEP for RTN 3-23246 Atlas concludes that the vertical extent of this Disposal Site begins just below the pavement surface and extends to at least 10 feet below grade.

It is anticipated that approximately 960 cubic yards of soil will be excavated from within the Disposal Site boundary associated with RTN 3-23246. Approximately 540 cubic yards will be returned to the location where it was excavated, and the remainder will be managed as Remediation Waste in accordance with the MCP. If groundwater is encountered and needs to be removed to facilitate stormwater system improvements, it will be recharged to the immediate subsurface location from where it is extracted in a manner that will ensure it remains within the Disposal Site boundary. Additional details on how soil and groundwater will be managed are presented below.

SITE INVESTIGATION

The Disposal Site associated with RTN 3-23246 has been investigated for more than 20 years. To supplement subsurface information from these investigations, on March 14 and 15, 2024, Atlas supervised the installation of 8 soil borings identified as ATC-1 to ATC-8 for sampling and laboratory analyses of soil to conduct in-situ pre-characterization of soil within the Tufts Street right-of-way. Locations were selected to reflect areas where soil excavation was proposed to support planned work. All detected volatile organic compounds (VOC) were below their MCP Method 1 Standards as were the detection limits for those compounds not detected. The attached Environmental Site Conditions Summary, Tufts Street Improvements Project (Atlas, May 2024) report provides additional information related to this investigation as well as a review of groundwater data generated by others from this area. Groundwater is impacted with PCE, trichloroethylene (TCE), and cis 1,2-dichloroethylene above their MCP Method 1 GW-2 standards. No exceedances of Method 1 GW-3 standards were reported.

URAM

The management of soil and groundwater within the RTN 3-23246 Disposal Site as a URAM have been incorporated into the Contract Document Specifications for 2025 Street Improvements and Additional Work Locations (“Specifications”). Relevant Specifications are attached. The following summarizes the Specification requirements and associated Item number:

In summary they require:

Scope of Work: Identifies that work within the limits of the Disposal Site for RTN 3-23246 will be subject to URAM. The Environmental Site Conditions Summary, Tufts Street Improvements Project is incorporated into the Contract Documents.

Trench Dams For Drainage Pipe, Item 158.1: Requires that bentonite Check Dams be installed a minimum of once per drainage pipe section greater than 30 feet in length to mitigate the potential for the drain pipe system to provide a preferential pathway for groundwater contamination migration.

Note that all storm drain pipe and structure connections are required to be water-tight to prevent the infiltration of groundwater.

Environmental Health and Safety Program, Item 180.01: Establish requirements for a Environmental Health and Safety Plan stamped by a Certified Industrial Hygienist and

the document incorporate the requirements of OSHA Standard 29 CFR 910.120(b)("HAZWOPER") and the MCP at 310 CMR 40.0018.

Personal Protection Level C Upgrade, Item 180.02: Requires that contractor be prepared to upgrade from HAZWOPER Level D personal protection equipment (PPE) to Level C.

Disposal of Soil, Items 181.12, 181.13, and 181.14: Identifies that soil will be managed as a URAM and establishes the requirements for:

- Storing soil within the work area and at the 50 Tufts Street property,
- Performing additional soil assessment activities if required,
- Off-site soil management and associated shipping papers,
- Tracking of soil managed off-site,
- Equipment decontamination,
- Submittals to be made for review the City's LSP that include:
    - Proposed off-site soil disposal locations;
    - Procedures soil stockpiling, transport and disposal

Management of Groundwater, Item 183.1: Identifies options and requirements for managing groundwater if encountered during construction. These options are to either:

1. Recharging groundwater to the subsurface within 25 feet of the location from which it is extracted, ensuring it does not impact local groundwater flow or leave the Disposal Site or
2. Discharges to the municipal storm drain system in compliance with MassDEP and EPA regulations including the Federal National Pollutant Discharge Elimination System (NPDES) program and associated Dewatering and Remediation General Permit (DRGP) effective August 2, 2022).

Based upon the limited amount of dewatering anticipated and information from the selected contractor, it is currently anticipated that groundwater management will occur as outlined by the first option above.

To support off-site soil managed, a Contained-On-Determination (CID) submitted May 2025, to the MassDEP to re-classify soil to be disposed off-site that is a listed hazardous waste as non-hazardous waste. The CID presents Atlas' review of relevant soil data submitted for RTN 3-23246 that was incorporated into the URAM soil management approach. The CID is attached.

The BWSC-119 URAM Transmittal Form is submitted concurrently with this letter. A validated unsigned draft of the BWSC-119 is attached.

LIMITATIONS

The substance, content, and findings of documents and/or other deliverables made to the City of Somerville (Client) including but not limited to reports, data, memorandums, and facsimiles, are for the sole use of the Client. No reliance for the data or findings contained in these deliverables may be extended to any third party without the express written consent of Atlas. Any unauthorized use or distribution of Atlas' work shall be at the Client's and recipient's sole risk and without liability to Atlas.

This report presents conditions observed and encountered at the Site on the days of Atlas' Site work only. The information presented in this report is based on our observations in the field at the time of our Site visit; a review of reasonably ascertainable documents and data; interviews with certain designated personnel; and a review of available agency files, as referenced herein. Data was collected at a limited number of locations on the Site. Analysis was limited to those samples collected and those parameters specifically analyzed for and noted in this report. It should be noted that conditions in other portions of the property not sampled by Atlas may differ

from those that were sampled. Conclusions, recommendations, and/or opinions in this report are based on information obtained from these installations, laboratory testing results, and applicable state regulations. Any qualitative or quantitative information regarding the Site, which was not available to Atlas at the time of this assessment, may result in a modification of the representations made in this report.

If you have questions or require further information regarding the information presented in this letter, please contact Michael Gitten.

Respectfully submitted,

ATLAS

Michael Gitten, LSP, PE
Area Manager
for Atlas
Direct Line: (781) 404 1439
Email: michael.gitten@oneatlas.com

Aaron G. Lucci
Project Manager
for Atlas
Direct Line: (781) 404 1351
Email: aaron.lucci@oneatlas.com

Attachments: Drawing 1
Figure 1
Figure 2
Environmental Site Conditions Summary Tufts Street Improvements Project (Atlas, May 2024)
Specifications for 2025 Street Improvements and Additional Work Locations (portion)
Contained In Determination (Atlas, May 2025)
Draft BWSC-119

Cc:

File: tufts st uram lsp opinion-rtn 3.51811.draft

2025 COMPLETE STREETS IMPROVEMENTS
TUFTS STREET

IN THE CITY OF

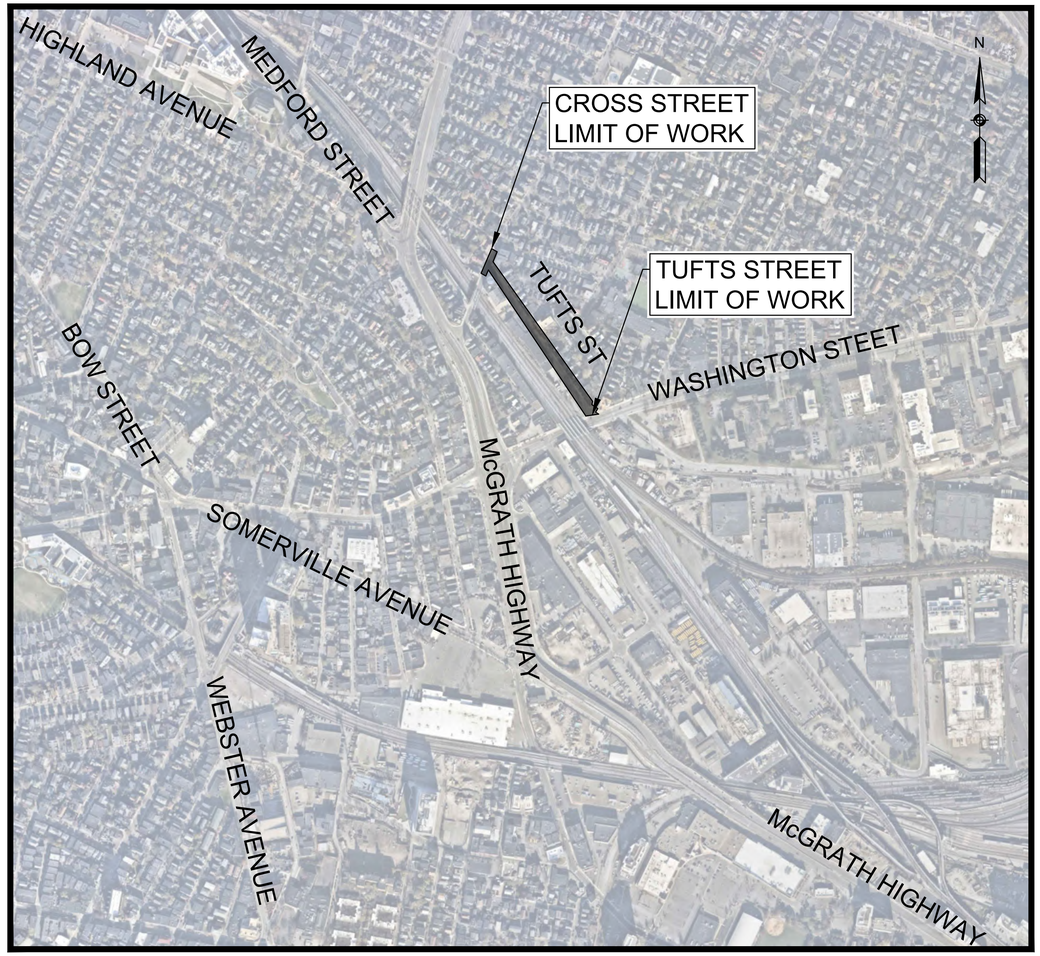
SOMERVILLE

MIDDLESEX COUNTY

THESE PLANS ARE SUPPLEMENTED BY THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET AND INDEX
2	KEY PLAN
3	LEGEND AND ABBREVIATIONS
4 - 5	GENERAL PLANS
6 - 7	SIGNING & PAVEMENT MARKING PLANS
8	SIGN SUMMARY
9 - 10	GRADING PLANS
11 - 12	CURB TIE PLANS
13 - 14	LANDSCAPE CURB TIE PLANS
15	CONSTRUCTION DETAILS - TYPICAL SECTIONS
16 - 19	CONSTRUCTION DETAILS



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COMMONWEALTH OF MASSACHUSETTS
KYLE R WHITING
CIVIL
No. 52675
REGISTERED PROFESSIONAL ENGINEER

MARK	DATE	DESCRIPTION	BY
0	5/24/24	90% DESIGN SUBMISSION	KW
1	9/19/24	100% DESIGN SUBMISSION	KW
2	12/17/24	PS&E SUBMISSION	KW

City of Somerville
2024 Street Improvements
Somerville, Massachusetts

Title Sheet & Index

PROJ:	143-314177-23002
DESN:	KW
DRWN:	JJ
CHKD:	EP

1 OF 19

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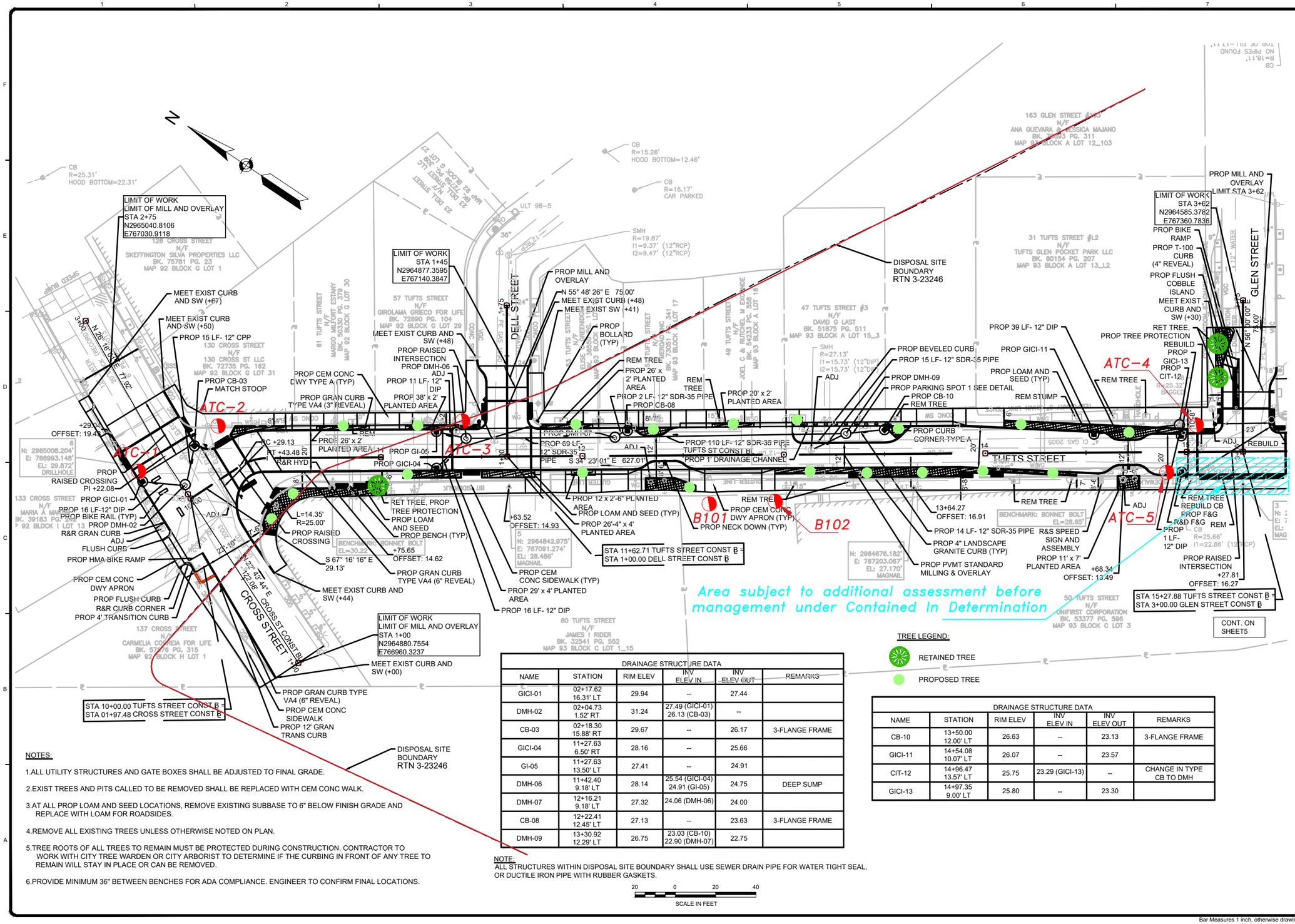

DRAINAGE STRUCTURE DATA					
NAME	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
GICI-01	02+17.62 16.31' LT	29.94	--	27.44	
DMH-02	02+04.73 1.52' RT	31.24	27.49 (GICI-01) 26.13 (CB-03)	--	
CB-03	02+18.30 15.88' RT	29.67	--	26.17	3-FLANGE FRAME
GICI-04	11+27.63 6.50' RT	28.16	--	25.66	
GI-05	11+27.63 13.50' LT	27.41	--	24.91	
DMH-06	11+42.40 9.18' LT	28.14	25.54 (GICI-04) 24.91 (GI-05)	24.75	DEEP SUMP
DMH-07	12+16.21 9.18' LT	27.32	24.06 (DMH-06)	24.00	
CB-08	12+22.41 12.45' LT	27.13	--	23.63	3-FLANGE FRAME
DMH-09	13+30.92 12.29' LT	26.75	23.03 (CB-10) 22.90 (DMH-07)	22.75	

DRAINAGE STRUCTURE DATA					
NAME	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
CB-10	13+50.00 12.00' LT	26.63	--	23.13	3-FLANGE FRAME
GICI-11	14+54.08 10.07' LT	26.07	--	23.57	
CIT-12	14+96.47 13.57' LT	25.75	23.29 (GICI-13)	--	CHANGE IN TYPE CB TO DMH
GICI-13	14+97.35 9.00' LT	25.80	--	23.30	

NOTES:

1. ALL UTILITY STRUCTURES AND GATE BOXES SHALL BE ADJUSTED TO FINAL GRADE.
2. EXIST TREES AND PITS CALLED TO BE REMOVED SHALL BE REPLACED WITH CEM CONC WALK.
3. AT ALL PROP LOAM AND SEED LOCATIONS, REMOVE EXISTING SUBBASE TO 6" BELOW FINISH GRADE AND REPLACE WITH LOAM FOR ROADSIDES.
4. REMOVE ALL EXISTING TREES UNLESS OTHERWISE NOTED ON PLAN.
5. TREE ROOTS OF ALL TREES TO REMAIN MUST BE PROTECTED DURING CONSTRUCTION. CONTRACTOR TO WORK WITH CITY TREE WARDEN OR CITY ARBORIST TO DETERMINE IF THE CURBING IN FRONT OF ANY TREE TO REMAIN WILL STAY IN PLACE OR CAN BE REMOVED.
6. PROVIDE MINIMUM 36" BETWEEN BENCHES FOR ADA COMPLIANCE. ENGINEER TO CONFIRM FINAL LOCATIONS.

NOTE:
ALL STRUCTURES WITHIN DISPOSAL SITE BOUNDARY SHALL USE SEWER DRAIN PIPE FOR WATER TIGHT SEAL, OR DUCTILE IRON PIPE WITH RUBBER GASKETS.

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SCALE IN FEET

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1	9/19/24	100% DESIGN SUBMISSION	KW
2	12/17/24	PSE SUBMISSION	KW

City of Somerville
2024 Street Improvements
Somerville, Massachusetts
Tufts Street
General Plan

PROJ: 143-314177-23002
DESN: KW
DRWN: JJ
CHKD: EP

4 OF 19

Contained In Determination Petition
Northwestern Project Extent
City of Somerville
Tufts Street Right of Way Improvments
Somerville, MA

Project Number: 6000007464
Date: 05/08/2025
Drn. By: AGL
Ckd. By: MSG
Scale: AS SHOWN
Figure: 1

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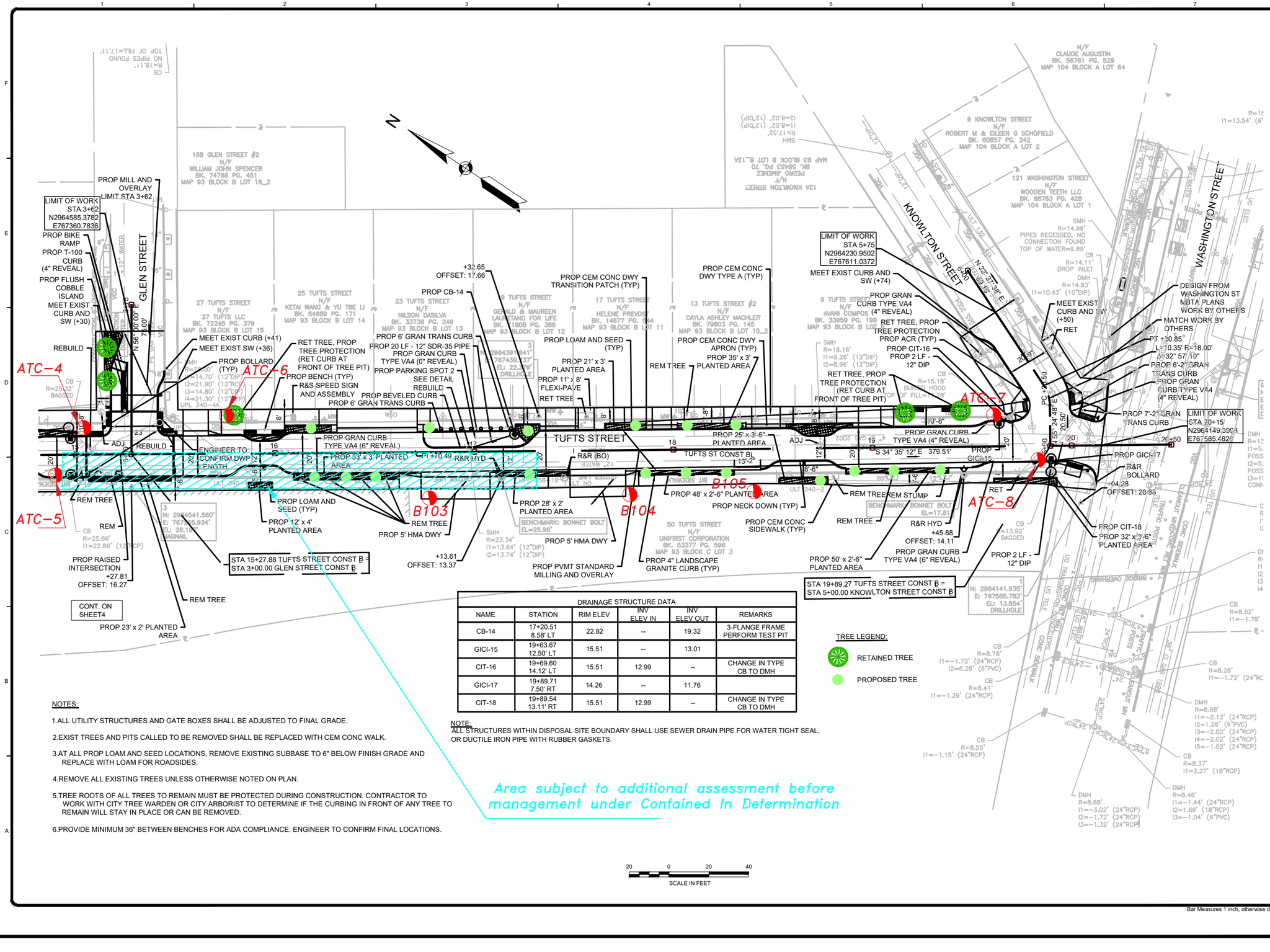

DRAINAGE STRUCTURE DATA

NAME	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
CB-14	17+20.51 8.58' LT	22.82	--	19.32	3-FLANGE FRAME PERFORM TEST PIT
GICI-15	19+63.67 12.50' LT	15.51	--	13.01	
CIT-16	19+69.60 14.12' LT	15.51	12.99	--	CHANGE IN TYPE CB TO DMH
GICI-17	19+89.71 7.50' RT	14.26	--	11.76	
CIT-18	19+89.54 13.11' RT	15.51	12.99	--	CHANGE IN TYPE CB TO DMH

NOTES:

1. ALL UTILITY STRUCTURES AND GATE BOXES SHALL BE ADJUSTED TO FINAL GRADE.
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2			

City of Somerville
2024 Street Improvements
Somerville, Massachusetts
Tufts Street General Plan

PROJ: 143-314177-23002
DESN: KW
DRWN: JJ
CHKD: EP

5 OF 19

Contained In Determination Petition
Southeastern Project Extent
City of Somerville
Tufts Street Right of Way Improvments
Somerville, MA

Project Number: 6000007464
Date: 05/08/2025
Drn. By: AGL
Ckd. By: MSG
Scale: AS SHOWN
Figure: 2

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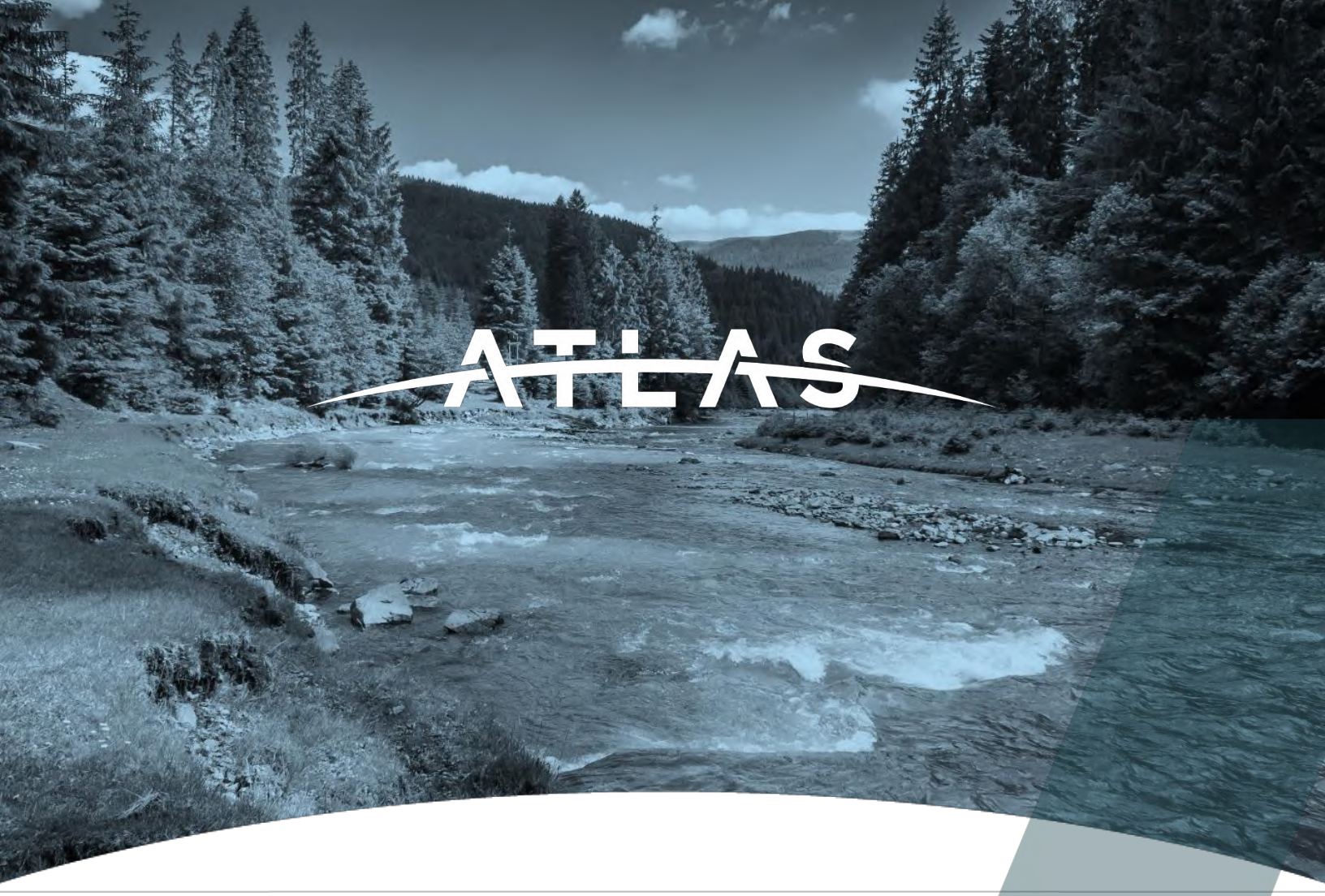

ENVIRONMENTAL SITE CONDITONS SUMMARY
TUFTS STREET IMPROVEMENTS PROJECT

TUFTS STREET
SOMERVILLE, MA

PREPARED FOR:

City of Somerville Engineering Department
Rebecca Wright, P.E.
Senior Project Manager of Streetscapes
1 Franey Road
Somerville, MA 02145

PREPARED BY:

Atlas Technical Consultants LLC
10 State Street, Suite 100
Woburn, Massachusetts 01801
Atlas Project No: 6000007464

May 10, 2024

10 State Street, Suite 100
Woburn, MA 01801
(781) 932-4200 | oneatlas.com

May 10, 2024

Ms. Rebecca Wright, P.E.
Senior Project Manager of Streetscapes
City of Somerville Engineering Department
1 Franey Road
Somerville, Massachusetts 02145

via email: rwright@somervillema.gov

Subject: **Environmental Site Conditions Summary**
Tufts Street Improvements Project
Tufts Street
Somerville, MA
Atlas Project No. 6000007464

Dear Ms. Wright:

Atlas Technical Consultants LLC (Atlas) is pleased to present this report to the City of Somerville (Client) in support of the Tufts Street Improvements Project. It presents the results of a soil investigation conducted in March 2024 at the Tufts Street right-of-way where a historical release of chlorinated volatile organic compounds (cVOCs) has occurred that is listed as a disposal site by the Massachusetts Department of Environmental Protection (MassDEP) under Release Tracking Number (RTN) 3-23246 in accordance with the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000). This investigation was completed in accordance with Atlas Proposal 23-10605, Change Order 01 (February 1, 2024) and Change Order 02 (March 18, 2024).

If you have questions regarding this report, please contact Stephan Landry.

Respectfully submitted,

ATLAS

Michael Gitten, LSP, PE
Division Manager
Direct Line: 781-404-1439
Email: michael.gitten@oneatlas.com

Stephan H. Landry, LSP
Senior Project Manager
Direct Line: 781-404-1431
Email: stephan.landry@oneatlas.com

Attachment: MCP Site Conditions Summary Report

File: Ennvironmental Site Conditions Summary - Tufts Street Improvements Project KF

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1. BACKGROUND 1
2. HEALTH & SAFETY 1
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FIGURES

Figure 1 Site Locus Map

Figure 2 MassDEP Phase I Site Assessment Map

TABLES

Table 1 Tufts Street Borings Soil Analytical Summary

APPENDICES

Appendix A Tufts Street Construction Concept Plans (2/9/2024)

Appendix B RTN 3-23246 Plans

Appendix C GPRS Report

Appendix D Boring Logs

Appendix E Laboratory Analytical Report

Appendix F RTN 3-23246 Groundwater Elevation and Data Tables

Appendix G CID Petition

1. BACKGROUND

The City of Somerville Tufts Street Improvement Project is planning to reconstruct sidewalks and repave Tufts Street between Cross Street and Washington Street ("Site") as part of the City's Pavement and Sidewalk Management Program. As shown on the Tufts Street Construction Concept Plan (2/9/2024) included in Appendix A, the Site includes the intersections with Cross Street, Dell Street, Glen Street, Knowlton Street, and Washington Street. As part of this project, shallow soil and groundwater less than 10 feet below grade may be generated for onsite reuse or offsite disposal.

Based upon a review of documents submitted under the Massachusetts Contingency Plan (MCP, 310 CMR 40.0000) and available on the Massachusetts Department of Environmental Protection's (MassDEP) website, the majority of the Tufts Street right of way is located within a MCP defined disposal site listed by the (MassDEP) Bureau of Waste Site Cleanup (BWSC) under Release Tracking Number (RTN) 3-23246. The horizontal extent of the disposal site is shown on the Atlas annotated August 2023 GEI Phase V ROS Site Plan (GEI Consultants Inc. (GEI), August 2023) included in Appendix B. This disposal site is associated with a release of tetrachloroethylene, also known as perchloroethylene (PCE), and 1,1,1-trichloroethane (1,1,1-TCA) to soil and/or groundwater from a former drycleaner facility located at the southwesterly abutting 50 Tufts Street property. Additional chlorinated volatile organic compounds (cVOCs) resulting from degradation of PCE and 1,1,1-TCA, particularly in groundwater, are trichloroethylene (TCE), cis 1,2-dichloroethylene (cis 1,2-DCE), 1,1-dichloroethane (1,1-DCA), and 1,1-dichloroethene (1,1-DCE). The vertical extent of this disposal site begins just below the pavement surface and extends to at least 10 feet below grade.

As presented herein, Atlas completed a soil pre-characterization and groundwater assessment within the Tufts Street right-of-way to support management of soil and groundwater in accordance with the MCP during the proposed Tufts Street improvement project.

2. HEALTH & SAFETY

Prior to execution of field activities, Atlas prepared a Site-specific Health and Safety Plan (HASP) to address potential health and safety concerns associated with site activities. Atlas prepared a Traffic Management Plan and obtained Street Occupancy-Trench-Excavation Permit #ES24-000068 from the City of Somerville.

3. UTILITY CLEARANCE AND GEOPHYSICAL SURVEY

Atlas contacted the utility notification service Dig Safe® and the local authorities to locate and surficially mark known utilities in the vicinity of the proposed pre-marked soil boring locations. These locations generally coincided with where the proposed drainage structures are shown on the Tufts Street Construction Concept Plans.

Atlas contracted with the private utility locating service Ground Penetrating Radar Systems (GPRS) to conduct a geophysical survey of the area of the proposed drilling locations to identify the locations of buried structures or utilities on the Site. GPRS conducted the survey on March 8, 2024. The GPRS report with photos and suspected utility locations identifying the subsurface utilities located during the survey is included in Appendix C.

4. SOIL CONDITIONS - MARCH 2024 SOIL INVESTIGATION

On March 14 and 15, 2024, Atlas supervised the installation of eight (8) borings (ATC-1 to ATC-8) to a depth of 10 feet below ground surface (bgs) using a direct push probe (GeoProbe) drilling system for collection and analyses of soil samples. Samples were collected for laboratory analysis to pre-characterize soil for future potential off-site disposal or on-site reuse associated with the Tufts Street Improvements Project. The drilling was conducted by Geosearch of Sterling, Massachusetts. Geosearch pre-cleared each boring location with a VacMaster unit to a depth of 5-feet below ground surface (bgs).

As shown on the Atlas annotated Tufts Street Construction Conceptual Plan (Appendix A) and August 2023 Phase V ROS Site Plan in Appendix B and, borings ATC-4 to ATC-8 are located within the disposal site while boring ATC-3 is located at the approximate northeast edge of the disposal at the intersection with Dell Street. Borings ATC-1 and ATC-2 are located outside the disposal site at the intersection with Cross Street. At each boring location, discrete soil samples were collected by hand auger during preclearing from 0 to 5 feet below grade surface and in dedicated acetate liners using a Geoprobe drill rig from 5 to 10 feet below grade surface.

Two samples were collected under the supervision of Atlas personnel each boring for a total of sixteen (16) soil samples. Soil samples from each depth interval were split in the field and a portion was placed in a plastic bag, left to stabilize, and field-screened for total volatile organic compounds (TVOCs) using a photoionization detector (PID). The second portion of the soil sample was placed into laboratory provided glassware for laboratory analysis.

Atlas visually classified soils at each depth interval using the Modified Burmister Soil Classification Method as noted in the descriptions on boring logs provided in Appendix D. Soils were generally observed to consist of fine to medium or fine to coarse grained sand, with evidence of fill in some locations, between 0 to 6 feet below grade underlain by either a fine to medium/coarse sand or a silt or clay.

Wet soils near the apparent groundwater table were observed in soils between 5.5 to 8 feet bgs. As explained further in the groundwater conditions section below, the historical groundwater elevation measurements from groundwater monitoring wells located in Tufts Street have been generally between 8 to 13 feet below grade.

The sixteen samples were all collected in laboratory provided containers and submitted to Eurofins laboratory under a chain of custody for analyzed for low level volatile organic compounds (VOCs) by EPA Method 8260. As presented in Table 1 Tufts Street Borings Soil Analytical Summary Table, laboratory results ranged from non-detect for all VOCs at 15 of 16 samples. The only detected compound was TCE at 0.0314 milligrams per kilogram (mg/kg) at boring ATC-8, 5-10 feet below grade surface. This is concentration well below the MCP RCS-1 value of 1 mg/Kg. RCS-1 is applicable because the Site is within a residential neighborhood.

In additions to the above described discrete soil analyses of VOCs by 8260, two sets of composite soil samples, one set (ATC-1 to ATC-8 Composite 0-5') from the 0 to 5 foot below grade surface interval of the 8 borings and the other set (ATC-1 to ATC-8 Composite 5-10') from the 5 to 10 foot below grade surface interval of the 8 borings, were submitted in properly preserved laboratory provided containers to Eurofins laboratory for the following analyses typically required by soil management facilities for disposal or recycling: Semi-VOCs with low level PAHs (SIMS) by EPA Method 8270; PCBs by EPA Method 8082; RCRA 8 Metals; TCLP lead; Total Petroleum Hydrocarbons by 8100; Corrosivity; Total Organic Carbon; Flashpoint; Reactivity Cyanide and Sulfide; and Conductivity.

As summarized in the attached Tufts Street Borings Soil Analytical Summary table, the results of the soil analyses did not detect any analytes above their respective MCP RCS-1 reportable concentrations nor exhibit any characteristics of hazardous waste pursuant to 310 CMR 30.120. The only soil sample that contained a detectable concentration of a VOC was ATC-8, 5-10' where PCE at 0.0134 mg/Kg was reported. In addition, the laboratory method reporting limits for all the disposal site VOCs were below their respective RCS-1 reportable concentrations. The laboratory report is included in Appendix E.

The results of the VOC and other soil analytical parameters indicate that, pending the approval or 21-day presumptive approval from MassDEP of a Contained-In-Determination (CID) Petition, the soil from both within and outside the MCP Site portion of Tufts Street can be managed as a non-hazardous waste and would meet the acceptance criteria under MassDEP policy #Comm-97-001 for disposal as a regulated material to a Massachusetts Lined or Unlined Landfill. See Section 6.1 for additional information related to the CID Petition.

5. GROUNDWATER CONDITIONS

During the March 14-15, 2024, boring soil sampling activities wet soils were observed between 5.5 to 8 feet bgs. This is assumed to be near the top of the apparent groundwater table. Historical groundwater elevations from six groundwater monitoring wells located in Tufts Street, as shown on the Atlas annotated Monitoring Well Location plan from the August 2023 Phase V ROS in Appendix B, have been measured between 8 to 13 feet below grade. Table 9-1 from the August 2023 Phase V ROS(GEI) presented in Appendix F shows that the historical groundwater elevation measurements were as follows:

- MW-106 (11.38 to 12.19 feet below grade);
- MW-109 (10.41 to 12.15 feet below grade);
- MW-110 (1.1 to 2.8 feet below grade);
- GEO-4 (9.26 to 13.02 feet below grade);
- GEO-5 (7.55 to 12.79 feet below grade); and
- GEO-6 (7.39 to 12.75 feet below grade).

The depth to groundwater was very shallow (1.1 to 2.5 feet below grade) at well MW-110, which is located at the intersection with Knowlton Street near borings ATC-7 and ATC-8. This higher groundwater elevation may be due to a perched groundwater condition sometimes associated with clay soils. Coincidentally, clay soils were observed at approximately 6 feet below grade at borings ATC-7 and ATC-8.

The results of groundwater analyses for VOCs from the monitoring wells located in Tufts Street were from samples collected between 2004 and 2008, as summarized from the Table 4-2 from the August 2023 Phase V ROS included in Appendix F, VOCs detected in groundwater during this period from these wells ranged as follows:

GEO-4 (2004-2007)

- PCE: **24,000 to 8,200** ug/L
- TCE: **235 to 75** ug/L
- Cis 1,2-DCE: 16.7 to 5.5 ug/L
- 1,1,1-TCA: 113 to 70 ug/L
- 1,1-DCA: 7.1 to 2.7 ug/L
- 1,1-DCE: 6.1 to 17.8 ug/L

GEO-5 (2004-2007)

- PCE: **14,400** to 18 ug/L
- TCE: **446** to <1 ug/L
- Cis 1,2-DCE: **35** to <1 ug/L
- 1,1,1-TCA: 652 to <1 ug/L
- 1,1-DCA: 9.7 to 3.0 ug/L
- 1,1-DCE: 32.7 to 8.9 ug/L

GEO-6 (2004-2007)

- PCE: **1,980** to **487** ug/L
- TCE: **131** to **70** ug/L
- Cis 1,2-DCE: 15 to 6.3 ug/L
- 1,1,1-TCA: 77 to 26 ug/L
- 1,1-DCA: 4.4 to 0.92 ug/L
- 1,1-DCE: 11 to 2.8 ug/L

MW106 (2007-2008)

- PCE: 3 to 1 ug/L
- TCE: 4.9 to 1.2 ug/L
- Cis 1,2-DCE**: 252** to 5 ug/L
- 1,1,1-TCA: 15 to 2 ug/L
- 1,1-DCA: <1.0 ug/L
- 1,1-DCE: 6.3 to 1.5 ug/L

MW109 (2007-2008)

- PCE: **178** to 17 ug/L
- TCE: 4.5 to 0.5 ug/L
- Cis 1,2-DCE: <1 ug/L
- 1,1,1-TCA: 1 to <1 ug/L
- 1,1-DCA: 1.2 to <1 ug/L
- 1,1-DCE: <1 ug/L

MW110 (2007)

- PCE: 0.93 ug/L to <1 ug/L
- TCE: <1 ug/L
- Cis 1,2-DCE: <1 ug/L
- 1,1,1-TCA: <1 ug/L
- 1,1-DCA: <1.0 ug/L
- 1,1-DCE: <1.0 ug/L

Groundwater concentrations that are greater than (>) the current MCP Method 1 GW-2 standards are bolded and underlined. There are no exceedances of Method 1 GW-3 standards.

Based on the concentrations of chlorinated VOCs detected in groundwater along as summarized here, groundwater that may need to be managed to accommodate installation of drainage structures may be either reinfiltrated adjacent to the approximate same area it is generated within the disposal site or transported off-site for disposal using a Uniform Hazardous Waste Manifest.

6. MCP COMPLIANCE

The following activities are required to comply with the MCP for that portion of the proposed work within the disposal site associated with RTN 3-23246.

6.1 Contained In Determination (CID) Petition

The only cVOC detected in soil from the March 14-15, 2024, sampling at Tufts Street was PCE at 0.0134 mg/Kg from boring ATC-8, 5'-10'. Since the total concentration of cVOCs is less than 1 parts per million or 1 mg/Kg, and other soil data indicates that there are no other hazardous waste characteristics associated with soils within Tufts Street, this soil may be classified as non-hazardous in Massachusetts with approval or 21-day presumptive approval of a Contained In Determination (CID) Petition from MassDEP. A CID petition provided in Appendix G will be submitted to MassDEP to classify up to 750 cubic yards of soil within disposal site area of Tufts Street as non-hazardous.

6.2 Utility-related Release Abatement Measure (URAM)

Management of soil and groundwater within the disposal site portion of the Tufts Street project, will need to be managed under a Utility-related Release Abatement Measure (URAM) in accordance with 310 CMR 40.0460 of the MCP. This disposal site to which the URAM applies is shown on plans in Appendix B. A Licensed Site Professional will be required since more than 20 cubic yards of soil impacted by a hazardous waste will be managed. URAM activities shall not be undertaken by a person performing construction activities until after that person has notified the MassDEP orally or in writing after which the URAM Plan will need to be submitted to MassDEP. MassDEP notification of the URAM activities will prompt MassDEP to issue a RTN specific to the Tufts Street URAM soil and groundwater management activities. The proposed URAM soil and groundwater management activities are to be presented in a URAM Plan per 310 CMR 40.0444, followed by site activity updates in a URAM Status Report per 4.0445 approximately 120-days after submittal of the URAM Plan and each 6-months thereafter until such time a URAM Completion Report per 40.0446 summarizing the results and completion of the soil and groundwater management activities has been submitted to MassDEP.

As noted above, MassDEP approval or 21-day presumptive of a CID Petition will be required to support the soil management portion of the URAM activities. The CID Petition will allow for onsite reuse and/or off-site disposal or recycling of Tufts Street soils as non-hazardous classified soils to an in-state or out-of-state landfill or recycling facility. Disposal or recycling of soil from *within the disposal site portion Tufts Street between Dell Street and Washington Street* may be transported off-site to an in-state or out-of-state licensed facility under a MassDEP Bill of Lading or non-hazardous uniform waste manifest. Disposal or recycling of soil from *outside the disposal site portion of Tufts Street between Dell Street and Cross Street* may be transported off-site to an in-state or out-of-state licensed facility under a MassDEP Bill of Lading (BOL), non-hazardous

uniform waste manifest, or material shipping record (MSR). Soils within the disposal site portion Tufts Street may not be reused outside the disposal site but soils outside the disposal may be reused within the disposal site portion of Tufts Street.

If groundwater is encountered during installation of drainage structures and dewatering is required, the URAM Plan will need to provide for alternative methods to manage groundwater such as for example, onsite treatment and disposal, on-site re-infiltration, and/or offsite disposal as hazardous waste using a vacuum truck. Note that discharge of disposal site groundwater to the municipal sewer system, which is part of the Massachusetts Water Resources Authority (MWRA) district, is not allowed by the MWRA. Groundwater dewatering from within the disposal site that is to be re-infiltrated must stay within that disposal site area while groundwater dewatering from outside the disposal site may be reinfiltrated inside or outside the disposal site. The facility to which groundwater from the Tufts Street would be transported for disposal may require testing and documentation for acceptance.

FIGURES

ATLAS

10 State Street, Suite 100
Woburn, Massachusetts

PROJECT NO.: 6000007464

FIGURE 1

SITE LOCUS MAP
Tufts Street
Somerville, Massachusetts

MassDEP - Bureau of Waste Site Cleanup

Phase 1 Site Assessment Map: 500 feet & 0.5 Mile Radii

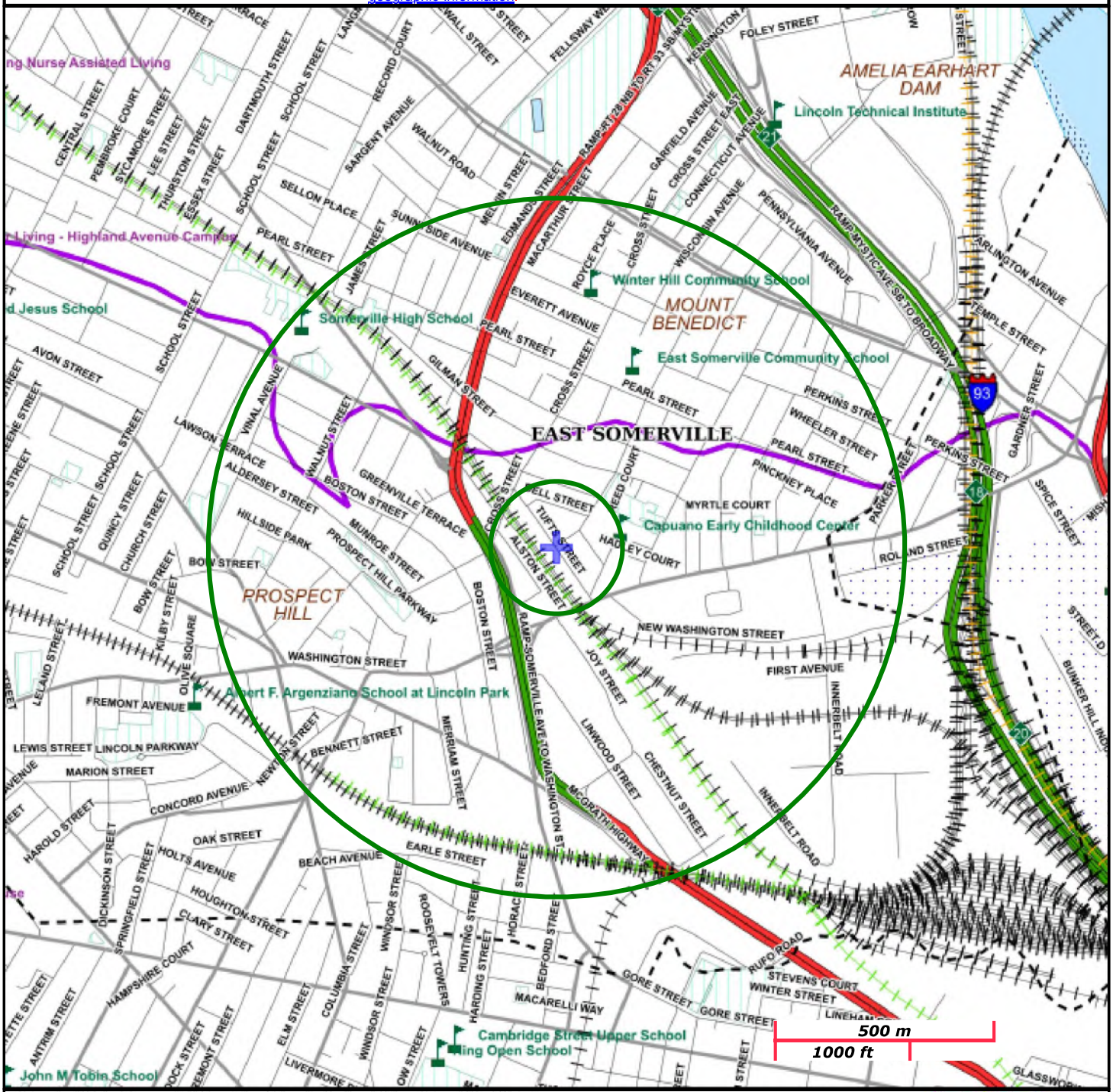
Site Information:

TUFTS STREET SOMERVILLE, MA

NAD83 UTM Meters:
4694316mN , 328064mE (Zone: 19)
May 6, 2024

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at: https://www.mass.gov/orgs/massgis-bureau-of-geographic-information.

MassDEP
Commonwealth of Massachusetts
Department of Environmental Protection



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail

Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct

Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam

Aquifers: Medium Yield, High Yield, EPA Sole Source

Non Potential Drinking Water Source Area: Medium, High (Yield)

PWS Protection Areas: Zone II, IWPA, Zone A

Hydrography: Open Water, PWS Reservoir, Tidal Flat

Wetlands: Freshwater, Saltwater, Cranberry Bog

FEMA 100yr Floodplain; Protected Open Space; ACEC

NHESP Pri-Hab of Rare Species; Vernal Pool: Cert., Potential

Solid Waste Landfill; PWS: Com.GW,SW, Emerg., Non-Com.

TABLE

Table 1 - Tufts Street Borings Soil Analytical Summary Table
With Comparison to MassDEP RCS-1 Reportable Concentrations and Soil Disposal Criteria per Massachusetts Landfill Policy #Comm-97-001
Tufts Street, Somerville, MA

Boring ID	ATC-1		ATC-2		ATC-3		ATC-4		ATC-5		ATC-6		ATC-7		ATC-8		ATC-1 to ATC-8 Composite	ATC-1 to ATC-8 Composite	MCP Reportable Concen-tration RCS-1	MassDEP COMM-97-001 Disposal Criteria	
Sample Depth (feet)	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10		MA Lined Landfill	MA Unlined Landfill
Sample Collection Date	3/15/24		3/15/24		3/15/24		3/14/24		3/14/24		3/14/24		3/14/24		3/14/24		3/15/24	3/15/24			
Analytcial Parameter																					
Headspace PID Reading (ppmv)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
Volatile Organic Compounds (VOCs) by EPA Method 8260C (ug/Kg)																					
1,1,1,2-Tetrachloroethane	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	100		
1,1,1-Trichloroethane	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	30,000		
1,1,2,2-Tetrachloroethane	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	5		
1,1,2-Trichloroethane	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	100		
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	NSE		
1,1-Dichloroethane	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	400		
1,1-Dichloroethene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	3,000		
1,1-Dichloropropene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	NSE		
1,2,3-Trichlorobenzene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	NSE		
1,2,3-Trichloropropane	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	100,000		
1,2,4-Trichlorobenzene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	2,000		
1,2,4-Trimethylbenzene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	1,000,000		
1,2-Dibromo-3-Chloropropane	< 9.38	< 10.6	< 10.9	< 12.8	< 19.7	< 10.3	< 10.1	< 10.5	< 9.85	< 8.87	< 10.4	< 11.5	< 9.34	< 25.3	< 12.4	< 9.88	na	na	5		
1,2-Dibromoethane (EDB)	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	100		
1,2-Dichlorobenzene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	9,000		
1,2-Dichloroethane	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	100		
1,2-Dichloropropane	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	100		
1,3,5-Trichlorobenzene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	NSE		
1,3,5-Trimethylbenzene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	10,000		
1,3-Dichlorobenzene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	3,000		
1,3-Dichloropropane	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	500		
1,3-Dichloropropene, Total	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	10		
1,4-Dichlorobenzene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	700	Total VOCs less than 10,000 ug/Kg	Total VOCs less than 4,000 ug/Kg
1,4-Dioxane	< 93.8	< 106	< 109	< 128	< 197	< 103	< 101	< 105	< 98.5	< 88.7	< 104	< 115	< 93.4	< 253	< 124	< 98.8	na	na	200		
2,2-Dichloropropane	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	NSE		
2-Butanone (MEK)	< 9.38	< 10.6	< 10.9	< 12.8	< 19.7	< 10.3	< 10.1	< 10.5	< 9.85	< 8.87	< 10.4	< 11.5	< 9.34	< 25.3	< 12.4	< 9.88	na	na	4000		
2-Chlorotoluene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	100		
2-Hexanone (MBK)	< 9.38	< 10.6	< 10.9	< 12.8	< 19.7	< 10.3	< 10.1	< 10.5	< 9.85	< 8.87	< 10.4	< 11.5	< 9.34	< 25.3	< 12.4	< 9.88	na	na	100,000		
4-Chlorotoluene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	100		
4-Isopropyltoluene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	NSE		
4-Methyl-2-pentanone (MIBK)	< 9.38	< 10.6	< 10.9	< 12.8	< 19.7	< 10.3	< 10.1	< 10.5	< 9.85	< 8.87	< 10.4	< 11.5	< 9.34	< 25.3	< 12.4	< 9.88	na	na	400		
Acetone	< 46.9	< 53.2	< 54.6	< 64.1	< 98.4	< 51.6	< 50.4	< 52.6	< 49.2	< 44.3	< 52.1	< 57.5	< 46.7	< 126	< 61.9	< 49.4	na	na	6,000		
Acrylonitrile	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	100,000		
Benzene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	2,000		
Bromobenzene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	100		
Bromochloromethane	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	NSE		
Bromodichloromethane	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	100,000		
Bromoform	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	100		
Bromomethane	< 9.38	< 10.6	< 10.9	< 12.8	< 19.7	< 10.3	< 10.1	< 10.5	< 9.85	< 8.87	< 10.4	< 11.5	< 9.34	< 25.3	< 12.4	< 9.88	na	na	500		
Carbon disulfide	< 9.38	< 10.6	< 10.9	< 12.8	< 19.7	< 10.3	< 10.1	< 10.5	< 9.85	< 8.87	< 10.4	< 11.5	< 9.34	< 25.3	< 12.4	< 9.88	na	na	100,000		
Carbon tetrachloride	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	5,000		
Chlorobenzene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	1,000		
Chloroethane	< 9.38	< 10.6	< 10.9	< 12.8	< 19.7	< 10.3	< 10.1	< 10.5	< 9.85	< 8.87	< 10.4	< 11.5	< 9.34	< 25.3	< 12.4	< 9.88	na	na	100,000		
Chloroform	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	200		
Chloromethane	< 9.38	< 10.6	< 10.9	< 12.8	< 19.7	< 10.3	< 10.1	< 10.5	< 9.85	< 8.87	< 10.4	< 11.5	< 9.34	< 25.3	< 12.4	< 9.88	na	na	100,000		
cis-1,2-Dichloroethene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	100		
cis-1,3-Dichloropropene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	10		

Tufts Street Borings Soil Analytical Summary
With Comparison to MassDEP RCS-1 Reportable Concentrations and Soil Disposal Criteria per Massachusetts Landfill Policy #Comm-97-001
Tufts Street, Somerville, MA

Boring ID	ATC-1		ATC-2		ATC-3		ATC-4		ATC-5		ATC-6		ATC-7		ATC-8		ATC-1 to ATC-8 Composite	ATC-1 to ATC-8 Composite	MCP Reportable Concen-tration RCS-1	MassDEP COMM-97-001 Disposal Criteria	
Sample Depth (feet)	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10		MA Lined Landfill	MA Unlined Landfill
Sample Collection Date	3/15/24		3/15/24		3/15/24		3/14/24		3/14/24		3/14/24		3/14/24		3/14/24		3/15/24	3/15/24			
Analytcial Parameter																					
Volatile Organic Compounds (VOCs) by EPA Method 8260C (ug/Kg)																					
Dibromochloromethane	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	5	Total VOCs less than 10,000 ug/Kg	Total VOCs less than 10,000 ug/Kg
Dibromomethane	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	500,000		
Dichlorodifluoromethane (Freon 12)	< 9.38	< 10.6	< 10.9	< 12.8	< 19.7	< 10.3	< 10.1	< 10.5	< 9.85	< 8.87	< 10.4	< 11.5	< 9.34	< 25.3	< 12.4	< 9.88	na	na	NSE		
di-Isopropyl ether	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	100,000		
Ethanol	< 938	< 1060	< 1090	< 1280	< 1970	< 1030	< 1010	< 1050	< 985	< 887	< 1040	< 1150	< 934	< 2530	< 1240	< 988	na	na	100,000		
Ethyl ether	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	100,000		
Ethyl tert-butyl ether	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	NSE		
Ethylbenzene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	40,000		
Hexachlorobutadiene	< 9.38	< 10.6	< 10.9	< 12.8	< 19.7	< 10.3	< 10.1	< 10.5	< 9.85	< 8.87	< 10.4	< 11.5	< 9.34	< 25.3	< 12.4	< 9.88	na	na	30,000		
Isopropylbenzene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	1,000,000		
m,p-Xylene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	NSE		
Methyl tert-butyl ether	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	100		
Methylene Chloride	< 9.38	< 10.6	< 10.9	< 12.8	< 19.7	< 10.3	< 10.1	< 10.5	< 9.85	< 8.87	< 10.4	< 11.5	< 9.34	< 25.3	< 12.4	< 9.88	na	na	100		
Naphthalene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	4,000		
n-Butylbenzene	< 9.38	< 10.6	< 10.9	< 12.8	< 19.7	< 10.3	< 10.1	< 10.5	< 9.85	< 8.87	< 10.4	< 11.5	< 9.34	< 25.3	< 12.4	< 9.88	na	na	NSE		
N-Propylbenzene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	100,000		
o-Xylene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	NSE		
sec-Butylbenzene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	NSE		
Styrene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	3,000		
Tert-amyl methyl ether	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	NSE		
tert-Butanol	< 93.8	< 106	< 109	< 128	< 197	< 103	< 101	< 105	< 98.5	< 88.7	< 104	< 115	< 93.4	< 253	< 124	< 98.8	na	na	100,000		
tert-Butylbenzene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	100,000		
Tetrachloroethene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	**13.4**	na	na	1,000		
Tetrahydrofuran	< 9.38	< 10.6	< 10.9	< 12.8	< 19.7	< 10.3	< 10.1	< 10.5	< 9.85	< 8.87	< 10.4	< 11.5	< 9.34	< 25.3	< 12.4	< 9.88	na	na	500,000		
Toluene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	30,000		
trans-1,2-Dichloroethene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	1,000		
trans-1,3-Dichloropropene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	10		
trans-1,4-Dichloro-2-butene	< 23.5	< 26.6	< 27.3	< 32.1	< 49.2	< 25.8	< 25.2	< 26.3	< 24.6	< 22.2	< 26.1	< 28.8	< 23.4	< 63.2	< 31.0	< 24.7	na	na	10,000		
Trichloroethene	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	300		
Trichlorofluoromethane (Freon 11)	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	1,000,000		
Vinyl chloride	< 4.69	< 5.32	< 5.46	< 6.41	< 9.84	< 5.16	< 5.04	< 5.26	< 4.92	< 4.43	< 5.21	< 5.75	< 4.67	< 12.6	< 6.19	< 4.94	na	na	700		
Xylenes, Total	< 14.1	< 16.0	< 16.4	< 19.2	< 29.5	< 15.5	< 15.1	< 15.8	< 14.8	< 13.3	< 15.6	< 17.3	< 14.0	< 37.9	< 18.6	< 14.8	na	na	100,000		
Total VOCs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**13.4**					

Tufts Street Borings Soil Analytical Summary
With Comparison to MassDEP RCS-1 Reportable Concentrations and Soil Disposal Criteria per Massachusetts Landfill Policy #Comm-97-001
Tufts Street, Somerville, MA

Boring ID	ATC-1		ATC-2		ATC-3		ATC-4		ATC-5		ATC-6		ATC-7		ATC-8		ATC-1 to ATC-8 Composite	ATC-1 to ATC-8 Composite	MCP Reportable Concen-tration RCS-1	MassDEP COMM-97-001 Disposal Criteria	
Sample Depth (feet)	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10		MA Lined Landfill	MA Unlined Landfill
Sample Collection Date	3/15/24		3/15/24		3/15/24		3/14/24		3/14/24		3/14/24		3/14/24		3/14/24		3/15/24	3/15/24			
Analytcial Parameter																					
Semi-volatile Organic Compounds (SVOCs) with Low Level Polycyclic Aromatic Hydrocarbons (PAHs) by Method 8270D (ug/Kg)																					
1,2,4,5-Tetrachlorobenzene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	NSE	Total SVOCs less than 100,000 ug/Kg	Total SVOCs less than 100,000 ug/Kg
1,2,4-Trichlorobenzene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	2,000		
1,2-Dichlorobenzene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	9,000		
1,3-Dichlorobenzene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	3,000		
1,4-Dichlorobenzene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	700		
2,4,5-Trichlorophenol	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	4,000		
2,4,6-Trichlorophenol	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 185	< 186	700		
2,4-Dichlorophenol	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 185	< 186	3,000		
2,4-Dimethylphenol	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	700		
2,4-Dinitrophenol	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 733	< 737	3,000		
2,4-Dinitrotoluene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 185	< 186	700		
2,6-Dinitrotoluene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 185	< 186	100,000		
2-Chloronaphthalene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	1,000,000		
2-Chlorophenol	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 185	< 186	700		
2-Methylphenol	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	500,000		
2-Nitroaniline	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	NSE		
2-Nitrophenol	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 185	< 186	100,000		
3 & 4 Methylphenol	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	500,000		
3,3'-Dichlorobenzidine	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	3,000		
3-Nitroaniline	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	NSE		
4,6-Dinitro-2-methylphenol	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	50,000		
4-Bromophenyl phenyl ether	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	100,000		
4-Chloro-3-methylphenol	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	1,000,000		
4-Chloroaniline	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 185	< 186	1,000		
4-Chlorophenyl phenyl ether	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	1,000,000		
4-Nitroaniline	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 185	< 186	1,000,000		
4-Nitrophenol	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	100,000		
Acetophenone	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 185	< 186	1,000,000		
Aniline	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	1,000,000		
Azobenzene/Diphenyldiazene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	50,000		
Benzidine	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 733	< 737	10,000		
Benzoic acid	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 740	< 744	1,000,000		
Benzyl alcohol	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	NSE		
bis (2-chloroisopropyl) ether	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 185	< 186	700		
Bis(2-chloroethoxy)methane	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	500,000		
Bis(2-chloroethyl)ether	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 185	< 186	700		
Bis(2-ethylhexyl) phthalate	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 185	< 186	90,000		
Butyl benzyl phthalate	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	100,000		
Carbazole	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 185	< 186	NSE		
Dibenzofuran	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 185	< 186	100,000		
Diethyl phthalate	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	10,000		
Dimethyl phthalate	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	700		
Di-n-butyl phthalate	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	50,000		
Di-n-octyl phthalate	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	1,000,000		
Hexachlorobenzene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 185	< 186	700		
Hexachlorobutadiene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 185	< 186	30,000		
Hexachlorocyclopentadiene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 185	< 186	50,000		
Hexachloroethane	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 185	< 186	700		

Tufts Street Borings Soil Analytical Summary
With Comparison to MassDEP RCS-1 Reportable Concentrations and Soil Disposal Criteria per Massachusetts Landfill Policy #Comm-97-001
Tufts Street, Somerville, MA

Boring ID	ATC-1		ATC-2		ATC-3		ATC-4		ATC-5		ATC-6		ATC-7		ATC-8		ATC-1 to ATC-8 Composite	ATC-1 to ATC-8 Composite	MCP Reportable Concen-tration RCS-1	MassDEP COMM-97-001 Disposal Criteria	
Sample Depth (feet)	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**	**5-10**		**MA Lined Landfill**	**MA Unlined Landfill**
Sample Collection Date	3/15/24		3/15/24		3/15/24		3/14/24		3/14/24		3/14/24		3/14/24		3/14/24		3/15/24	3/15/24			
Analytcial Parameter																					
Semi-volatile Organic Compounds (SVOCs) with Low Level Polycyclic Aromatic Hydrocarbons (PAHs) by Method 8270D (ug/Kg)																					
Isophorone	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 185	< 186	100,000		
Nitrobenzene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 185	< 186	500,000		
N-Nitrosodimethylamine	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 185	< 186	50,000		
N-Nitrosodi-n-propylamine	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 185	< 186	50,000		
N-Nitrosodiphenylamine	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	100,000		
Pentachloronitrobenzene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	NSE		
Pentachlorophenol	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	3,000		
Phenol	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	10,000		
Pyridine	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 366	< 368	500		
1-Methylnaphthalene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 17.8	< 17.9	NSE		
2-Methylnaphthalene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 17.8	< 17.9	700		
Acenaphthene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 17.8	< 17.9	4,000		
Acenaphthylene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**28.7**	< 17.9	1,000	Total	Total
Anthracene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**33.8**	< 17.9	1,000,000	SVOCs less	SVOCs less
Benzo[a]anthracene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**148**	< 17.9	7,000	than	than
Benzo[a]pyrene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**175**	< 17.9	2,000	100,000	100,000
Benzo[b]fluoranthene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**179**	< 17.9	7,000	ug/Kg	ug/Kg
Benzo[g,h,i]perylene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**136**	< 17.9	1,000,000		
Benzo[k]fluoranthene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**165**	< 17.9	70,000		
Bis(2-ethylhexyl) phthalate	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**50.8**	< 37.2	90,000		
Chrysene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**156**	< 17.9	70,000		
Dibenz(a,h)anthracene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**41.0**	< 17.9	700		
Fluoranthene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**256**	< 17.9	1,000,000		
Fluorene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 17.8	< 17.9	1,000,000		
Indeno[1,2,3-cd]pyrene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**112**	< 17.9	7,000		
Naphthalene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 17.8	< 17.9	4,000		
Phenanthrene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**102**	< 17.9	10,000		
Pyrene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**259**	< 17.9	1,000		
Total SVOCs	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**1842.3**	ND			

Tufts Street Borings Soil Analytical Summary
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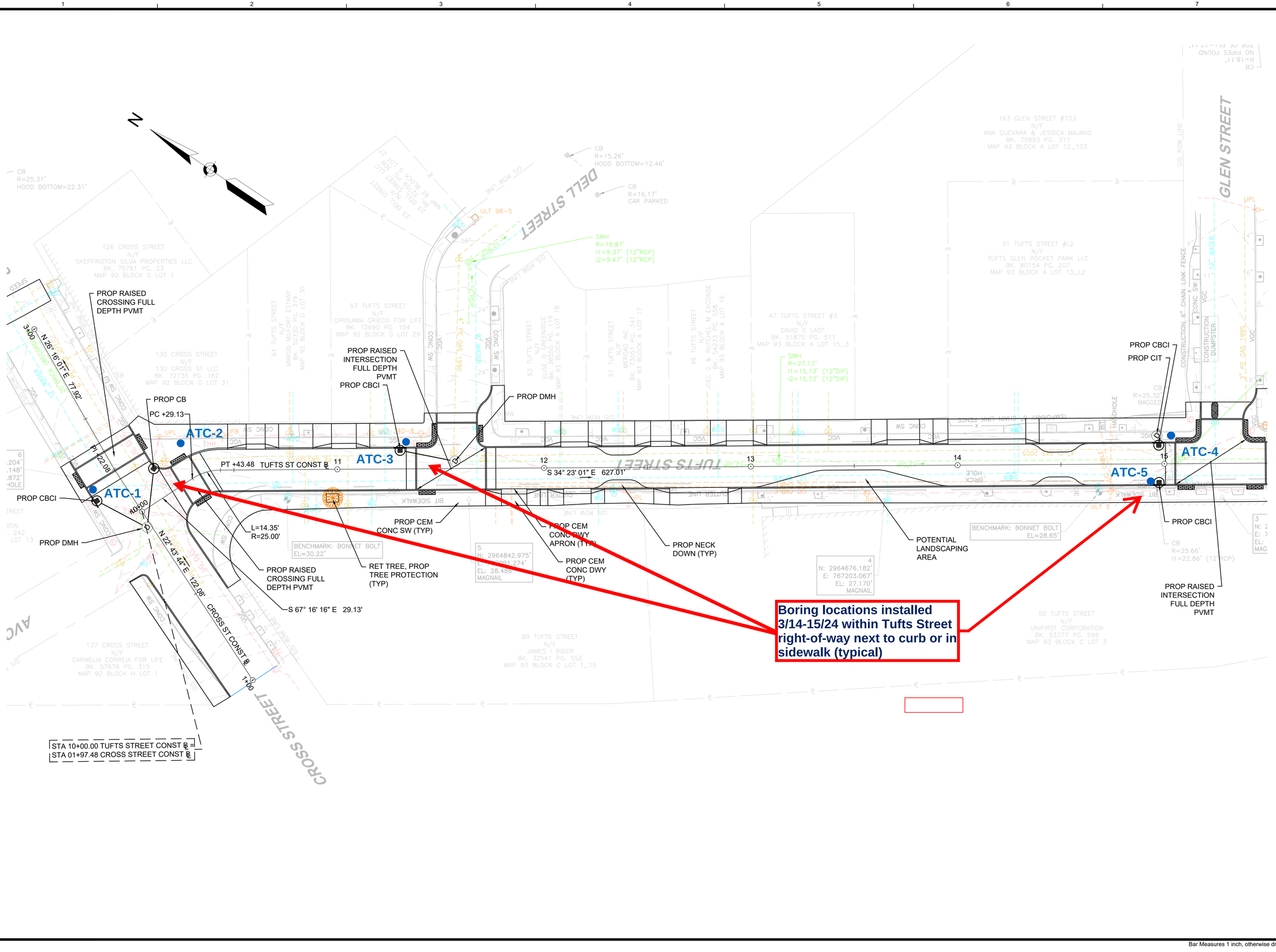
Tufts Street, Somerville, MA

Boring ID	ATC-1		ATC-2		ATC-3		ATC-4		ATC-5		ATC-6		ATC-7		ATC-8		ATC-1 to ATC-8 Composite	ATC-1 to ATC-8 Composite	MCP Reportable Concen-tration RCS-1	MassDEP COMM-97-001 Disposal Criteria	
Sample Depth (feet)	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10	0-5	5-10		MA Lined Landfill	MA Unlined Landfill
Sample Collection Date	3/15/24		3/15/24		3/15/24		3/14/24		3/14/24		3/14/24		3/14/24		3/14/24		3/15/24	3/15/24			
Analytcial Parameter																					
Polychlorinated Biphenyls (PCBs) by EPA Method 8082 (ug/Kg)																					
PCB-1016	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 21.9	< 22.1	1,000		
PCB-1221	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 21.9	< 22.1	1,000		
PCB-1232	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 21.9	< 22.1	1,000		
PCB-1242	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 21.9	< 22.1	1,000	Total PCBs less than 2,000 ug/Kg	Total PCBs less than 2,000 ug/Kg
PCB-1248	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 21.9	< 22.1	1,000		
PCB-1254	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 21.9	< 22.1	1,000		
PCB-1260	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 21.9	< 22.1	1,000		
PCB-1262	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 21.9	< 22.1	1,000		
PCB-1268	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 21.9	< 22.1	1,000		
Total PCBs	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	<21.9	<21.9	1,000		
Total Extractable Petroleum Hydrocarbons (TEPH) by EPA Method 8100 (mg/Kg)																					
TEPH (C9-C36)	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**90.2**	**16.7**	1,000	5,000	2,500
Metals by EPA Methods 6010D / 7171A (mg/Kg)																					
Arsenic	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 3.15	**3.60**	20	40	40
Barium	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**45.9**	**39.3**	1,000	NSE	NSE
Cadmium	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 1.05	< 0.961	70	80	30
Chromium	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**13.6**	**17.4**	100	1,000	1,000
Lead	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**21.0**	**5.34**	200	2,000	1,000
Mercury	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 0.0530	< 0.0512	20	10	10
Selenium	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 3.15	< 2.88	400	NSE	NSE
Silver	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 3.15	< 2.88	100	NSE	NSE
General Chemistry																					
Flashpoint by EPA Method 1010A (Degrees Fahrenheit)	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	>184	>170	NSE	NSE	NSE
Cyanide, Reactive by EPA Method 9012 (mg/Kg)	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 57.7	< 59.9	NSE	NSE	NSE
Sulfide, Reactive by EPA Method 9034 (mg/Kg)	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 154	< 160	NSE	NSE	NSE
pH (Corrosivity) by EPA Method 9045D (SU)	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**8.4**	**7.9**	NSE	NSE	NSE
Temperature by EPA Method 9045D (Degrees Celsius)	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**23.4**	**23.4**	NSE	NSE	NSE
Total Organic Carbon by EPA Method 9060 (mg/Kg)	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**4,780**	**1,620**	NSE	NSE	NSE
Specific Conductance by EPA Method SM 2510B (us/cm)	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**1,200**	**601**	NSE	8,000	4,000

Notes:
MCP = Massachusetts Contingency Plan; 310 CMR 40.0000
RCS-1 = Reportable Concentration per MCP
Comm-97-001 = MassDEP policy # Comm 97-001 Reuse and Disposal of Contaminated Soil at Massachusetts Landfills
ug/Kg = micrograms per kilogram
mg/Kg = milligrams per kilogram
SU = standard unit
us/cm = microsiemens per centimeter
Bold type indicates detected concentration above laboratory method reporting limit
na = not analyzed
ND = Not detected above laboratory method reporting limit
NSE = No standard established

APPENDIX A

CITY OF SOMERVILLE CONSTRUCTION CONCEPT PLANS


N
DELL STREET
GLEN STREET
TUFTS STREET
CROSS STREET
PROP RAISED CROSSING FULL DEPTH PVMT
PROP CB
PC +29.13
PROP CBCI
PROP RAISED INTERSECTION FULL DEPTH PVMT
PROP DMH
PROP CIT
ATC-1
ATC-2
ATC-3
ATC-4
ATC-5
N 26° 16' 01" E 77.92'
R=22.08'
PT +43.48 TUFTS ST CONST ℄
S 34° 23' 01" E 627.01'
L=14.35'
R=25.00'
N 22° 43' 47" E 122.08'
CROSS ST CONST ℄
S 67° 16' 16" E 29.13'
PROP CEM CONC SW (TYP)
PROP CEM CONC DWY APRON (TYP)
PROP CEM CONC DWY (TYP)
PROP NECK DOWN (TYP)
POTENTIAL LANDSCAPING AREA
RET TREE, PROP TREE PROTECTION (TYP)
PROP RAISED CROSSING FULL DEPTH PVMT
PROP RAISED INTERSECTION FULL DEPTH PVMT
BENCHMARK: BONNET BOLT EL=30.22'
BENCHMARK: BONNET BOLT EL=28.65'
CB R=15.26' HOOD BOTTOM=12.46'
CB R=16.17' CAR PARKED
CB R=25.31' HOOD BOTTOM=22.31'
SMH R=19.87' I1=9.37' (12"RCP) I2=9.47' (12"RCP)
SMH R=27.13' I1=15.73' (12"DIP) I2=15.73' (12"DIP)
CB R=25.32' BAGGED
CB R=25.66' I1=22.86' (12"RCP)
126 CROSS STREET N/F SKEFFINGTON SILVA PROPERTIES LLC BK. 75781 PG. 23 MAP 92 BLOCK G LOT 1
130 CROSS STREET N/F 130 CROSS ST LLC BK. 72735 PG. 162 MAP 92 BLOCK G LOT 31
57 TUFTS STREET N/F GIROLAMA GRIECO FOR LIFE BK. 72690 PG. 104 MAP 92 BLOCK G LOT 29
61 TUFTS STREET N/F MARCO MILFORT ESTANY BK. 50300 PG. 379 MAP 92 BLOCK G LOT 30
53 TUFTS STREET N/F ELISE O. GREENIDGE BK. 36550 PG. 119 MAP 93 BLOCK A LOT 18
51 TUFTS STREET N/F MEROAD INC. BK. 73051 PG. 341 MAP 93 BLOCK A LOT 17
49 TUFTS STREET N/F JOEL C. & ROTCHEL M. EXCONDE BK. 51523 PG. 568 MAP 93 BLOCK A LOT 16
47 TUFTS STREET #3 N/F DAVID G LAST BK. 51875 PG. 511 MAP 93 BLOCK A LOT 15_3
163 GLEN STREET #103 N/F ANA GUEVARA & JESSICA MAJANO BK. 79893 PG. 311 MAP 93 BLOCK A LOT 12_103
31 TUFTS STREET #L2 N/F TUFTS GLEN POCKET PARK LLC BK. 80154 PG. 207 MAP 93 BLOCK A LOT 13_L2
137 CROSS STREET N/F CARMELIA CORREIA FOR LIFE BK. 57676 PG. 315 MAP 92 BLOCK H LOT 1
60 TUFTS STREET N/F JAMES I RIDER BK. 32541 PG. 552 MAP 93 BLOCK C LOT 1_15
50 TUFTS STREET N/F UNIFIRST CORPORATION BK. 53377 PG. 596 MAP 93 BLOCK C LOT 3
5 N: 2964842.975' E: 767691.274' EL: 28.486 MAGNAIL
4 N: 2964676.182' E: 767203.067' EL: 27.170' MAGNAIL
STA 10+00.00 TUFTS STREET CONST ℄ = STA 01+97.48 CROSS STREET CONST ℄
Boring locations installed 3/14-15/24 within Tufts Street right-of-way next to curb or in sidewalk (typical)

TETRA TECH
www.tetratech.com
100 Nickerson Road
Marlborough, Massachusetts 01752
Phone: (508) 786-2200 Fax: (508) 786-2201

MARK	DATE	DESCRIPTION	BY

City of Somerville
2024 Street Improvements
Somerville, Massachusetts

Tufts Street
Construction Concept Plan

PROJ: 143-314177-23002
DESN:
DRWN:
CHKD:

1 OF 2

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Bar Measures 1 inch, otherwise drawing not to scale

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Boring locations installed 3/14-15/24 in Tufts Street right-of-way next to curb or in sidewalk (typical)

ATC-4
ATC-5
ATC-6
ATC-7
ATC-8

PROP CBCI
PROP CIT
PROP RAISED INTERSECTION FULL DEPTH PVMT
PROP CEM CONC DWY (TYP)
PROP CEM CONC DWY APRON (TYP)
PROP ACR (TYP)
RET TREE, PROP TREE PROTECTION (TYP)
PROP CEM CONC SW (TYP.)
PROP NECK DOWN (TYP)

GLEN STREET
TUFTS STREET
KNOWLTON STREET
WASHINGTON STREET

TUFTS ST CONST ℄
PI +70.49
S 34° 35' 12" E 379.51'

BENCHMARK: BONNET BOLT EL=25.95'
BENCHMARK: BONNET BOLT EL=17.61'

2 N: 2964391.841' E: 767439.737' EL: 22.379' DRILLHOLE
3 N: 2964[illegible].560' E: 767295.93[illegible] EL: 26.197' MAGNAIL
1 N: 2964141.935' E: 767555.783' EL: 13.854' DRILLHOLE

168 GLEN STREET #2 N/F WILLIAM JOHN SPENCER BK. 74766 PG. 451 MAP 93 BLOCK B LOT 16_2
27 TUFTS STREET N/F 27 TUFTS LLC BK. 72245 PG. 379 MAP 93 BLOCK B LOT 15
25 TUFTS STREET N/F KETAI WANG & YU TBE LI BK. 54689 PG. 171 MAP 93 BLOCK B LOT 14
23 TUFTS STREET N/F NILSON DASILVA BK. 33736 PG. 249 MAP 93 BLOCK B LOT 13
19 TUFTS STREET N/F GERALD & MAUREEN LAURETANO FOR LIFE BK. 71808 PG. 386 MAP 93 BLOCK B LOT 12
17 TUFTS STREET N/F HELENE PREVOST BK. 14677 PG. 544 MAP 93 BLOCK B LOT 11
13 TUFTS STREET #2 N/F CAYLA ASHLEY MACHLEIT BK. 79803 PG. 145 MAP 93 BLOCK B LOT 10_2
9 TUFTS STREET N/F AVANI COMPOS BK. 33959 PG. 198 MAP 93 BLOCK B LOT 9
50 TUFTS STREET N/F UNIFIRST CORPORATION BK. 53377 PG. 596 MAP 93 BLOCK C LOT 3
9 KNOWLTON STREET N/F ROBERT M & EILEEN G SCHOFIELD BK. 60857 PG. 242 MAP 104 BLOCK A LOT 2
117 WASHINGTON STREET N/F CLAUDE AUGUSTIN BK. 56761 PG. 529 MAP 104 BLOCK A LOT 64
121 WASHINGTON STREET N/F WOODEN TEETH LLC BK. 68763 PG. 428 MAP 104 BLOCK A LOT 1

SMH R=26.00' I1=14.70' (12"DIP) I2=21.90' (12"RCP) I3=14.80' (12"DIP) I4=21.30' (12"RCP)
SMH R=13.64' (12"DIP) I2=13.74' (12"DIP)
SMH R=18.16' I1=9.26' (12"DIP) I2=8.96' (12"DIP)
SMH R=14.99' PIPES RECESSED, NO CONNECTION FOUND TOP OF WATER=9.89'
CB R=25.32' BAGGED
CB R=25.66' I1=22.86' (12"RCP)
CB R=15.18' BURIED HOOD FILL=11.78'
CB R=14.11' DROP INLET
DMH R=14.83' I1=10.43' (10"DIP)
DMH R=13.92' I1=5.72' POSSIBLE I2=5.72' POSSIBLE I3=10.32' CONNECTI
CB R=13.92' BAGGED
CB R=8.62' I1=-1.78' (24"
CB R=8.78' I1=-1.72' (24"RCP) I2=6.28' (6"PVC)
CB R=8.41' I1=-1.29' (24"RCP)
CB R=8.55' I1=-1.15' (24"RCP)
CB R=8.28' I1=-1.72' (24"RCP)
DMH R=8.68' I1=-2.12' (24"RCP) I2=1.28' (6"PVC) I3=-2.02' (24"RCP) I4=-2.02' (24"RCP) I5=-1.02' (24"RCP)
CB R=8.37' I1=2.27' (18"RCP)
DMH R=8.46' I1=-1.44' (24"RCP) I2=1.66' (18"RCP) I3=-1.04' (6"PVC)
DMH R=8.68' I1=-3.02' (24"RCP) I2=-1.72' (24"RCP) I3=-1.32' (24"RCP)

UPL 340=4A
ULT 340=4
UPL 358 19 ULT=NO
12" WATER
3" PE GAS 1995
CONSTRUCTION 6" CHAIN LINK FENCE
CONSTRUCTION DUMPSTER
GAS 2002
DWLEx
SWL
CWL
YL
BIT
CONC SW
CONC SIDEWALK
BIT SIDEWALK
GUTTER LINE
GIS ROW LINE
22.00'
20.00' (TYP)
1.00' (TYP)
BIKE ONLY BUS

TETRA TECH
www.tetratech.com
100 Nickerson Road
Marlborough, Massachusetts 01752
Phone: (508) 786-2200 Fax: (508) 786-2201

MARK | DATE | DESCRIPTION | BY

City of Somerville
2024 Street Improvements
Somerville, Massachusetts
Tufts Street
Construction Concept Plan

PROJ: 143-314177-23002
DESN:
DRWN:
CHKD:

2 OF 2

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Bar Measures 1 inch, otherwise drawing not to scale

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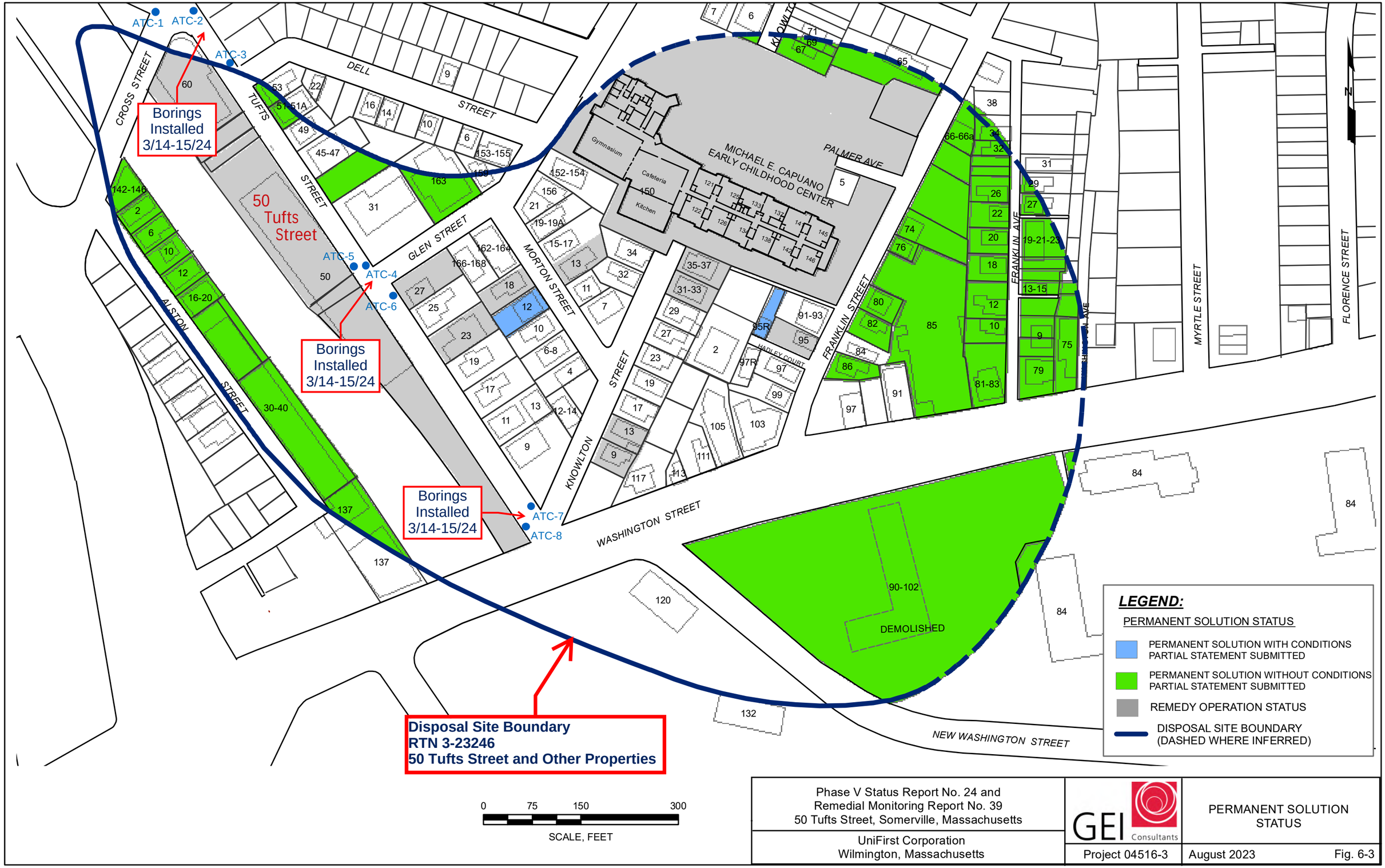
APPENDIX B

RTN 3-23246 SITE PLANS



Phase V Status Report No. 24 and
Remedial Monitoring Report No. 39
50 Tufts Street, Somerville, Massachusetts

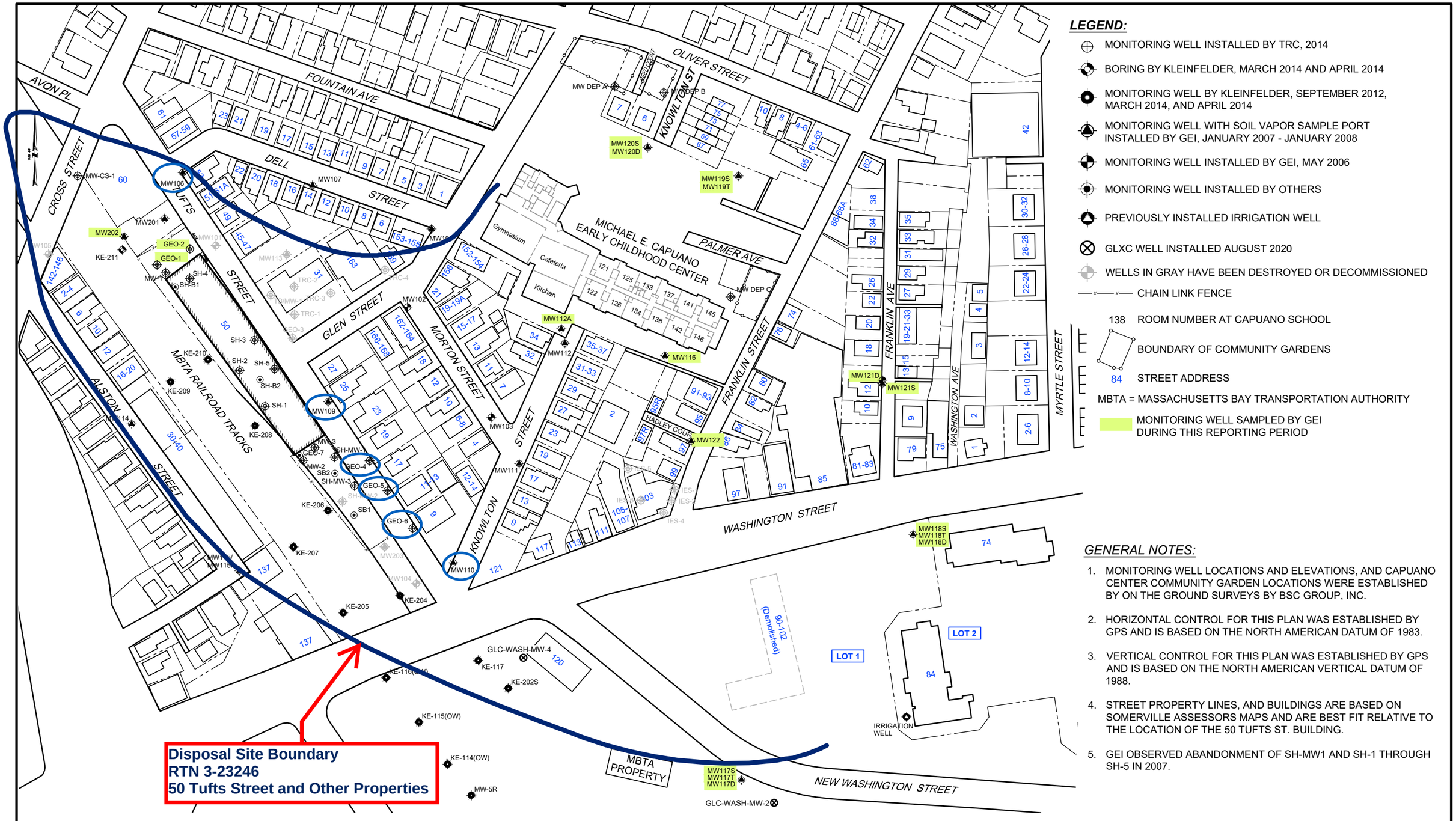
UniFirst Corporation
Wilmington, Massachusetts

GEI Consultants

PERMANENT SOLUTION STATUS

Project 04516-3 | August 2023 | Fig. 6-3

B:\Private\04516\20.0 GIS Data\Map_Files\SR 24 RMR 39\Fig 6-3_Permanent Solution Sta



LEGEND:

- MONITORING WELL INSTALLED BY TRC, 2014
- BORING BY KLEINFELDER, MARCH 2014 AND APRIL 2014
- MONITORING WELL BY KLEINFELDER, SEPTEMBER 2012, MARCH 2014, AND APRIL 2014
- MONITORING WELL WITH SOIL VAPOR SAMPLE PORT INSTALLED BY GEI, JANUARY 2007 - JANUARY 2008
- MONITORING WELL INSTALLED BY GEI, MAY 2006
- MONITORING WELL INSTALLED BY OTHERS
- PREVIOUSLY INSTALLED IRRIGATION WELL
- GLXC WELL INSTALLED AUGUST 2020
- WELLS IN GRAY HAVE BEEN DESTROYED OR DECOMMISSIONED
- CHAIN LINK FENCE
- 138 ROOM NUMBER AT CAPUANO SCHOOL
- BOUNDARY OF COMMUNITY GARDENS
- 84 STREET ADDRESS
- MBTA = MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
- MONITORING WELL SAMPLED BY GEI DURING THIS REPORTING PERIOD

GENERAL NOTES:

1. MONITORING WELL LOCATIONS AND ELEVATIONS, AND CAPUANO CENTER COMMUNITY GARDEN LOCATIONS WERE ESTABLISHED BY ON THE GROUND SURVEYS BY BSC GROUP, INC.
2. HORIZONTAL CONTROL FOR THIS PLAN WAS ESTABLISHED BY GPS AND IS BASED ON THE NORTH AMERICAN DATUM OF 1983.
3. VERTICAL CONTROL FOR THIS PLAN WAS ESTABLISHED BY GPS AND IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
4. STREET PROPERTY LINES, AND BUILDINGS ARE BASED ON SOMERVILLE ASSESSORS MAPS AND ARE BEST FIT RELATIVE TO THE LOCATION OF THE 50 TUFTS ST. BUILDING.
5. GEI OBSERVED ABANDONMENT OF SH-MW1 AND SH-1 THROUGH SH-5 IN 2007.

Phase V Status Report No. 24 and
Remedial Monitoring Report No. 39
50 Tufts Street Somerville, Massachusetts

UniFirst Corporation
Wilmington, Massachusetts

GEI Consultants

MONITORING WELL LOCATIONS

Project 04516-3 | August 2023 | Fig. 4-1

B:\Private\04516\#Drafting\04516-3\Phase V SRs & RMRs\045163 PhV SR MW Loc

APPENDIX C

GPRS REPORT

JOB SUMMARY REPORT

Order Number:	Work Order #638432	**Job Date:**	Mar 8, 2024 7:44:00 AM
Customer:	82605 ATC GROUP SERVICES LLC DBA ATLAS TECHNICAL CONSULTANTS : ATLAS TECHNICAL CONSULTANTS LLC	**Billing Address:**	ATLAS TECHNICAL CONSULTANTS LLC 5750 JOHNSTON ST STE 400 LAFAYETTE LA 70503 United States

JOB DETAILS

Jobsite Location	Tufts Street, Somerville, Massachusetts, 02145
Work Order Number	Work Order #638432
Job Number	
PO Number	6000007464

GPRS Project Manager: Michael Layon

Thank you for using GPRS on your project. We appreciate the opportunity to work with you. If you have questions regarding the results of this scanning, please contact the lead GPRS project manager on this project.

EQUIPMENT USED

The following equipment was used on this project:

- **Underground GPR Antenna:** This GPR Antenna uses frequencies ranging from 250 MHz to 450 MHz and is mounted in a stroller frame that rolls over the surface. Data is displayed on a screen and marked in the field in real time. The surface needs to be reasonably smooth and unobstructed to obtain readable scans. Obstructions such as curbs, landscaping, and vegetation will limit the efficacy of GPR. The total effective scan depth can be as much as 8’ or more with this antenna but can vary widely depending on the soil conditions and composition. Some soil types, such as clay, may limit maximum depths to 3’ or less. As depth increases, targets must be larger to be detected, and non-metallic targets can be challenging to locate. The depths provided should always be treated as estimates as their accuracy can be affected by multiple factors. For more information, please visit: Link
- **EM Pipe Locator:** Electromagnetic Pipe and Cable Locator. Detects electromagnetic fields. Used to actively trace conductive pipes and tracer wires, or passively detect power and radio signals traveling along conductive pipes and utilities. For more information, please visit: Link
- **GPS:** This handheld unit offers accuracy down to 4 inches; however, the accuracy achieved will depend on the satellite environment at the time of collection and is not considered survey-grade. Features can be collected as points, lines, or areas and then exported as a KML/KMZ or overlaid on a CAD drawing. For more information, please visit: Link

JOB SUMMARY REPORT

WORK PERFORMED

UNDERGROUND UTILITY	
Client Provided Drawings	No
Client completed 811 locate request	Yes
Scope of Work	Scan for utilities a 20'x20' area around 8 soil boring locations along Tufts st in Somerville MA. Mark, map and document findings.
Soil Borings (qty)	10
Limitations Encountered	- Surface obstructions - Utilities too deep to locate
Limitations Encountered - Other	see notes
Marking Medium	- Spray Paint
Results Notes	The following findings were found within the ~20' scan radius around 8 soil borings: ATC-1 (area 7): Gas line located via GPR by trench line data at an unknown depth. Water line was located ~4'-5'. Electrical line was located ~2'-3'. Communication line was identified, no depth available. Max GPR depth was found to be ~2'. ATC-2 (area 6): Gas line ~2'-3'. Water line ~3'-4'. Electrical line ~2'-3'. Unknown line ~1'-2'. Max GPR depth was found to be ~2'. ATC-3 (area 5): Gas line could not be confirmed in this location due to pipe composition and could not induce a signal. Water line ~5'-6'. Sanitary/storm line depth could not be confirmed due to depth of line. Unknown manhole filled with water, could not determine depth or direction. Power pole with no drops. Debris on sidewalk limited scanning ability in sidewalk area. Max GPR depth was found to be ~1'. ATC-4/5 (area 4): Gas line ~1'-2. Water line 5'-6'. Storm lines ~2'-3'. Sanitary line ~9'-10'. Max GPR depth was found to be ~2'. ATC-6 (area 3): Gas line ~1'-2'. No power detected. Max GPR depth was found to be ~2'. ATC-7 (area 2): Gas line ~1'-2'. No power detected. Max GPR depth was found to be ~1.5'. ATC-8 (area 1): Electrical line ~2'-3'. Communication line ~1'-2'. Max GPR depth was found to be ~2'. Due to limitations mentioned above (limited GPR data depth, debris), client is advised to proceed with caution outside scan area, near any marked lines and below GPR depth. For more site pictures and information please refer to associated mapping.

JOB SUMMARY REPORT

JOBSITE IMAGES

Jobsite Photo #1

Jobsite Photo #2

Jobsite Photo #3

JOB SUMMARY REPORT

Jobsite Photo #4

Jobsite Photo #5

Jobsite Photo #6

JOB SUMMARY REPORT

Jobsite Photo #7

Jobsite Photo #8

Jobsite Photo #9

JOB SUMMARY REPORT

CONTACT / SIGNATURE INFORMATION

Contact Information

Contact Name	Stephan Landry	**Email**	stephan.landry@oneatlas.com

TERMS & CONDITIONS

http://www.gprsinc.com/termsandconditions.html

APPENDIX D

BORING LOGS

BORING/MONITORING WELL LOG

Atlas Technical Consultants LLC
10 State Street, Suite 100
Woburn, MA 01801
Phone: (781) 932-9400 Fax: (781) 932-6211

SITE:	Tuft Street Improvement Project
DATE:	3/15/2024
CLIENT:	City of Somerville
DRILLING CO.:	Geosearch
DRILLING METHOD:	Direct Push Geoprobe
SAMPLER METHOD:	Hand auger with vactor, and macrocore
AUGER DIAMETER:	

WELL/BORING NO.:	ATC-1
WEATHER:	cloudy, 40's
Atlas INSPECTOR:	Eric Marchese
SURFACE ELEVATION:	not surveyed
DEPTH TO WATER: (feet)	~6
Atlas Project Number:	6000007464
Phase Number:	02

Sample Interval (feet)	Recovery/ Penetration (in/in)	Blow Counts (per 6")	PID readings (ppmv)	Depth (feet)	Soil Log
0-5			0.0 0.0 0.0 0.0 0.0	1 2 3 4 5	
5-10	39/60		0.0 (5-8) 0.0 (8-10)	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	

Materials Description
(color, density, size, major and minor constituents, moisture)
no well installed

9 inches asphalt
Pre-clear to 5 ft
Brown and black, fine to coarse SAND, trace silt, trace fine gravel, trace cobble, no odors or staining

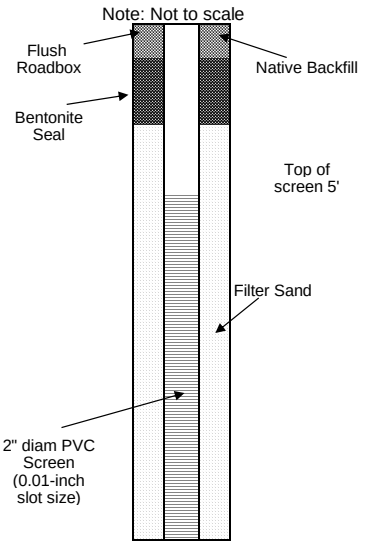
Brown and black, fine to coarse SAND, trace silt, trace fine gravel, trace cobble, no odors or staining

Grey and brown, CLAY and SILT, no odor or staining

End of boring at 10 feet

Well Construction (none)

	(Depth Interval)
CEMENT SEAL:	N/A
NATURAL FILL	N/A
BENTONITE SEAL	N/A
FILTER SAND	N/A
SOLID PVC RISER	N/A
PVC SCREEN	N/A



COMMENTS:
Sampled for VOC/8260 from 0-5 and 5-10 interval

GRANULAR SOILS COHESIVELESS DENSITY

0-4	Very Loose
5-9	Loose
10-29	Medium Dense
30-49	Dense
50+	Very Dense

PROPORTIONS USED

Trace	0-10%
Little	10-20%
Some	20-35%
And	35-50%

LEGEND:
ND = Not Detected
NA = Not Applicable
GS = Ground Surface

BORING/MONITORING WELL LOG

Atlas Technical Consultants LLC
10 State Street, Suite 100
Woburn, MA 01801
Phone: (781) 932-9400 Fax: (781) 932-6211

SITE:	Tuft Street Improvement Project
DATE:	3/15/2024
CLIENT:	City of Somerville
DRILLING CO.:	Geosearch
DRILLING METHOD:	Direct Push Geoprobe
SAMPLER METHOD:	Hand auger with vactor, and macrocore
AUGER DIAMETER:	

WELL/BORING NO.:	ATC-2
WEATHER:	cloudy, 40's
Atlas INSPECTOR:	Eric Marchese
SURFACE ELEVATION:	not surveyed
DEPTH TO WATER:	~5.5
Atlas Project Number:	6000007464
Phase Number:	02

Sample Interval (feet)	Recovery/ Penetration (in/in)	Blow Counts (per 6")	PID readings (ppmv)	Depth (feet)	Soil Log
0-5			0.0	1	
			0.0	2	
			0.0	3	
			0.0	4	
			0.0	5	
				6	
				7	
5-10	42/60		0.0 (5-10)	8	
				9	
				10	
				11	
				12	
				13	
				14	
				15	
				16	
				17	
				18	
				19	
				20	
				21	
				22	
				23	
				24	
				25	
				26	
				27	
				28	
				29	
				30	
				31	
				32	
				33	
				34	
				35	

Materials Description
(color, density, size, major and minor constituents, moisture)
no well installed

9 inches asphalt
Pre-clear to 5 ft
Light to dark brown, fine to coarse SAND, trace silt, trace fine gravel, trace cobble, no odors or staining

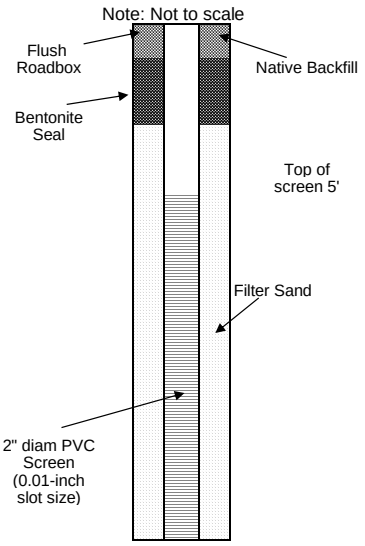
Grey green, very fine SAND and CLAY

End of boring at 10 feet

Well Construction (none)

	(Depth Interval)
CEMENT SEAL:	N/A
NATURAL FILL	N/A
BENTONITE SEAL	N/A
FILTER SAND	N/A
SOLID PVC RISER	N/A
PVC SCREEN	N/A

Note: Not to scale



COMMENTS:
Sampled for VOC/8260 from 0-5 and 5-10 interval

GRANULAR SOILS COHESIVELESS DENSITY

0-4	Very Loose
5-9	Loose
10-29	Medium Dense
30-49	Dense
50+	Very Dense

PROPORTIONS USED

Trace	0-10%
Little	10-20%
Some	20-35%
And	35-50%

LEGEND:
ND = Not Detected
NA = Not Applicable
GS = Ground Surface

BORING/MONITORING WELL LOG

Atlas Technical Consultants LLC
10 State Street, Suite 100
Woburn, MA 01801
Phone: (781) 932-9400 Fax: (781) 932-6211

SITE:	Tuft Street Improvement Project	**WELL/BORING NO.:**	ATC-3
DATE:	3/15/2024	**WEATHER:**	cloudy, 40's
CLIENT:	City of Somerville	**Atlas INSPECTOR:**	Eric Marchese
DRILLING CO.:	Geosearch	**SURFACE ELEVATION:**	not surveyed
DRILLING METHOD:	Direct Push Geoprobe	**DEPTH TO WATER:**	~7
SAMPLER METHOD:	Hand auger with vactor, and macrocore	**Atlas Project Number:**	6000007464
AUGER DIAMETER:		**Phase Number:**	02

Sample Interval (feet)	Recovery/ Penetration (in/in)	Blow Counts (per 6")	PID readings (ppmv)	Depth (feet)	Soil Log
0-5			0.0 0.0 0.0 0.0 0.0 0.0 (5-6)	1 2 3 4 5 6 7	
5-10	36/60		0.0 (6-10)	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	

Materials Description
(color, density, size, major and minor constituents, moisture)
no well installed

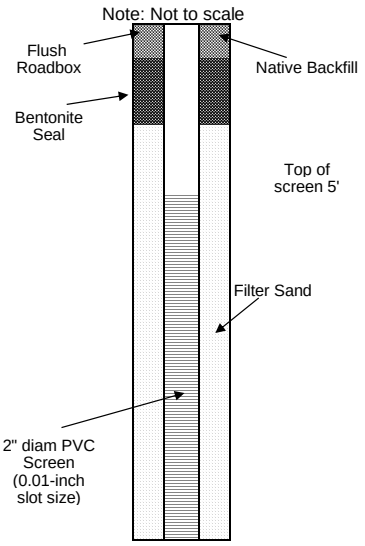
6 inches asphalt
Pre-clear to 5 ft
Dark brown and black, fine to coarse SAND, trace silt, trace fine gravel, trace cobble, trace brick debris, no odors or staining

Dark to light brown, fine SAND and some CLAY, trace fine gravel

End of boring at 10 feet

Well Construction (none)

	(Depth Interval)
CEMENT SEAL:	N/A
NATURAL FILL	N/A
BENTONITE SEAL	N/A
FILTER SAND	N/A
SOLID PVC RISER	N/A
PVC SCREEN	N/A



COMMENTS:
Sampled for VOC/8260 from 0-5 and 5-10 interval

GRANULAR SOILS COHESIVELESS DENSITY

0-4	Very Loose
5-9	Loose
10-29	Medium Dense
30-49	Dense
50+	Very Dense

PROPORTIONS USED

Trace	0-10%
Little	10-20%
Some	20-35%
And	35-50%

LEGEND:
ND = Not Detected
NA = Not Applicable
GS = Ground Surface

BORING/MONITORING WELL LOG

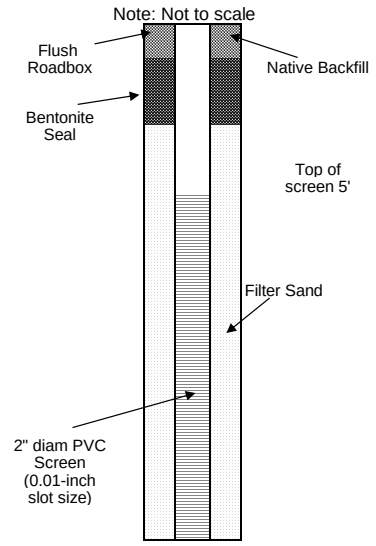
Atlas Technical Consultants LLC
10 State Street, Suite 100
Woburn, MA 01801
Phone: (781) 932-9400 Fax: (781) 932-6211

SITE:	Tuft Street Improvement Project	**WELL/BORING NO.:**	ATC-4
DATE:	3/14/2024	**WEATHER:**	cloudy, 40's
CLIENT:	City of Somerville	**Atlas INSPECTOR:**	Eric Marchese
DRILLING CO.:	Geosearch	**SURFACE ELEVATION:**	Unknown
DRILLING METHOD:	Direct Push Geoprobe	**DEPTH TO WATER:**	~8
SAMPLER METHOD:	Hand auger with vactor, and macrocore	**Atlas Project Number:**	6000007464
AUGER DIAMETER:		**Phase Number:**	02

Sample Interval (feet)	Recovery/ Penetration (in/in)	Blow Counts (per 6")	PID readings (ppmv)	Depth (feet)	Soil Log	Materials Description (color, density, size, major and minor constituents, moisture)
			0.0	1		4 inches asphalt Pre-clear to 5 ft
			0.0	2		Light brown to grey, coarse to fine SAND, trace silt, trace fine gravel, trace cobble, dry, no odors or staining
0-5			0.0	3		
			0.0	4		
			0.0	5		
				6		
5-10	42/60		0.0 (5-10)	7		Light to dark brown, coarse to medium SAND, trace silt, trace fine gravel, no odors or staining
				8		
				9		
				10		End of boring at 10 feet
				11		
				12		
				13		
				14		
				15		
				16		
				17		
				18		
				19		
				20		
				21		
				22		
				23		
				24		
				25		
				26		
				27		
				28		
				29		
				30		
				31		
				32		
				33		
				34		
				35		

Well Construction (none)

	(Depth Interval)
CEMENT SEAL:	N/A
NATURAL FILL	N/A
BENTONITE SEAL	N/A
FILTER SAND	N/A
SOLID PVC RISER	N/A
PVC SCREEN	N/A



COMMENTS:
Sampled for VOC/8260 from 0-5 and 5-10 interval

GRANULAR SOILS COHESIVELESS DENSITY

0-4	Very Loose
5-9	Loose
10-29	Medium Dense
30-49	Dense
50+	Very Dense

PROPORTIONS USED

Trace	0-10%
Little	10-20%
Some	20-35%
And	35-50%

LEGEND:
ND = Not Detected
NA = Not Applicable
GS = Ground Surface

BORING/MONITORING WELL LOG

Atlas Technical Consultants LLC
10 State Street, Suite 100
Woburn, MA 01801
Phone: (781) 932-9400 Fax: (781) 932-6211

SITE:	Tuft Street Improvement Project
DATE:	3/14/2024
CLIENT:	City of Somerville
DRILLING CO.:	Geosearch
DRILLING METHOD:	Direct Push Geoprobe
SAMPLER METHOD:	Hand auger with vactor, and macrocore
AUGER DIAMETER:	

WELL/BORING NO.:	ATC-5
WEATHER:	cloudy, 40's
Atlas INSPECTOR:	Eric Marchese
SURFACE ELEVATION:	Unknown
DEPTH TO WATER:	~8
Atlas Project Number:	6000007464
Phase Number:	02

Sample Interval (feet)	Recovery/ Penetration (in/in)	Blow Counts (per 6")	PID readings (ppmv)	Depth (feet)	Soil Log
			0.0	1	
			0.0	2	
			0.0	3	
0-5			0.0	4	
			0.0	5	
				6	
				7	
5-10	52/60		0.0 (5-10)	8 ▼	
				9	
				10	
				11	
				12	
				13	
				14	
				15	
				16	
				17	
				18	
				19	
				20	
				21	
				22	
				23	
				24	
				25	
				26	
				27	
				28	
				29	
				30	
				31	
				32	
				33	
				34	
				35	

Materials Description
(color, density, size, major and minor constituents, moisture)
no well constructed

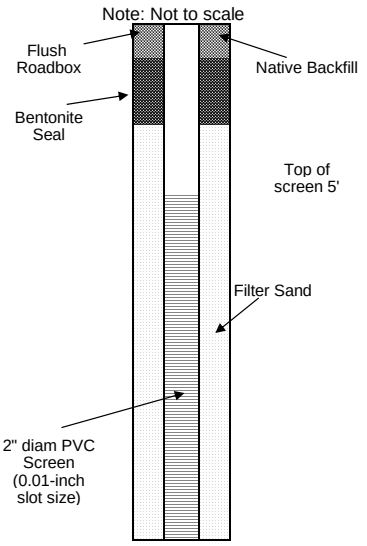
4 inches asphalt
Pre-clear to 5 ft
Brown and black, fine to coarse SAND, trace silt, trace fine gravel, trace cobble, moist toward bottom, no odors or staining

Brown and black, fine to coarse SAND, trace silt, trace fine gravel, no odors or staining

End of boring at 10 feet

Well Construction (none)

	(Depth Interval)
CEMENT SEAL:	N/A
NATURAL FILL	N/A
BENTONITE SEAL	N/A
FILTER SAND	N/A
SOLID PVC RISER	N/A
PVC SCREEN	N/A



COMMENTS:
Sampled for VOC/8260 from 0-5 and 5-10 interval

GRANULAR SOILS COHESIVELESS DENSITY
0-4 Very Loose
5-9 Loose
10-29 Medium Dense
30-49 Dense
50+ Very Dense

PROPORTIONS USED
Trace 0-10%
Little 10-20%
Some 20-35%
And 35-50%

LEGEND:
ND = Not Detected
NA = Not Applicable
GS = Ground Surface

BORING/MONITORING WELL LOG

Atlas Technical Consultants LLC
10 State Street, Suite 100
Woburn, MA 01801
Phone: (781) 932-9400 Fax: (781) 932-6211

SITE:	Tuft Street Improvement Project
DATE:	3/14/2024
CLIENT:	City of Somerville
DRILLING CO.:	Geosearch
DRILLING METHOD:	Direct Push Geoprobe
SAMPLER METHOD:	Hand auger with vactor, and macrocore
AUGER DIAMETER:	

WELL/BORING NO.:	ATC-6
WEATHER:	cloudy, 40's
Atlas INSPECTOR:	Eric Marchese
SURFACE ELEVATION:	Unknown
DEPTH TO WATER:	~6
Atlas Project Number:	6000007464
Phase Number:	02

Sample Interval (feet)	Recovery/ Penetration (in/in)	Blow Counts (per 6")	PID readings (ppmv)	Depth (feet)	Soil Log
0-5			0.0 0.0 0.0 0.0 0.0	1 2 3 4 5	
5-10	36/60		0.0 (5-10)	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	

Materials Description
(color, density, size, major and minor constituents, moisture)
no well contructed

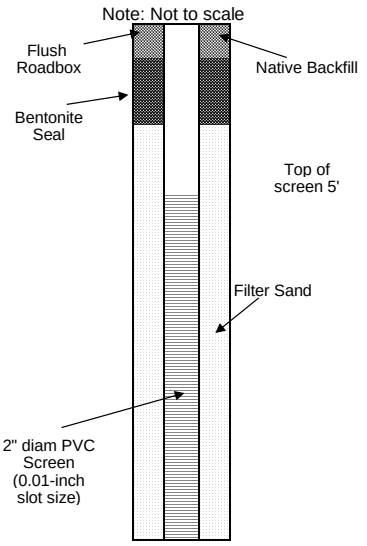
Drilled in sidewalk, 6 inches concrete
Pre-clear to 5 ft
Light brown and black, fine to medium SAND, trace silt, trace fine gravel, trace cobble, no odors or staining

Light brown and black, fine to medium SAND, trace silt, trace fine gravel, no odors or staining

End of boring at 10 feet

Well Construction

	(Depth Interval)
CEMENT SEAL:	N/A
NATURAL FILL	N/A
BENTONITE SEAL	N/A
FILTER SAND	N/A
SOLID PVC RISER	N/A
PVC SCREEN	N/A



COMMENTS:
Sampled for VOC/8260 from 0-5 and 5-10 interval

GRANULAR SOILS COHESIVELESS DENSITY

0-4	Very Loose
5-9	Loose
10-29	Medium Dense
30-49	Dense
50+	Very Dense

PROPORTIONS USED

Trace	0-10%
Little	10-20%
Some	20-35%
And	35-50%

LEGEND:
ND = Not Detected
NA = Not Applicable
GS = Ground Surface

BORING/MONITORING WELL LOG

Atlas Technical Consultants LLC
10 State Street, Suite 100
Woburn, MA 01801
Phone: (781) 932-9400 Fax: (781) 932-6211

SITE:	Tuft Street Improvement Project
DATE:	3/14/2024
CLIENT:	City of Somerville
DRILLING CO.:	Geosearch
DRILLING METHOD:	Direct Push Geoprobe
SAMPLER METHOD:	Hand auger with vactor, and macrocore
AUGER DIAMETER:	

WELL/BORING NO.:	ATC-7
WEATHER:	cloudy, 40's
Atlas INSPECTOR:	Eric Marchese
SURFACE ELEVATION:	not surveyed
DEPTH TO WATER:	~6
Atlas Project Number:	6000007464
Phase Number:	02

Sample Interval (feet)	Recovery/ Penetration (in/in)	Blow Counts (per 6")	PID readings (ppmv)	Depth (feet)	Soil Log
0-5			0.0 0.0 0.0 0.0 0.0	1 2 3 4 5 6	
5-10	60/60		0.0 (6-10) ft.	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	

Materials Description
(color, density, size, major and minor constituents, moisture)
no well constructed

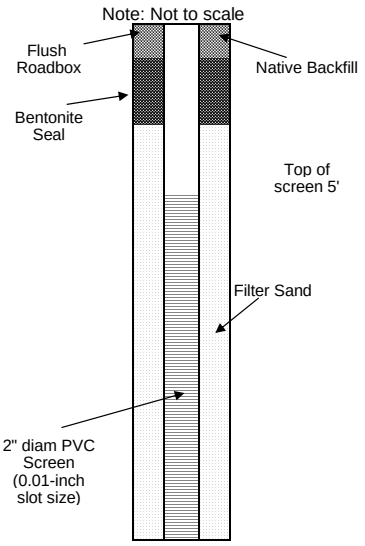
Drilled in sidewalk, 6 inches concrete
Pre-clear to 5 ft
Light and dark brown, medium to fine SAND, trace silt, trace fine gravel, whole bricks and brick debris, dry, no odors or staining

Grey and brown, CLAY with trace fine sand and silt, wet

End of boring at 10 feet

Well Construction (none)

	(Depth Interval)
CEMENT SEAL:	N/A
NATURAL FILL	N/A
BENTONITE SEAL	N/A
FILTER SAND	N/A
SOLID PVC RISER	N/A
PVC SCREEN	N/A



COMMENTS:
Sampled for VOC/8260 from 0-5 and 5-10 interval

GRANULAR SOILS COHESIVELESS DENSITY

0-4	Very Loose
5-9	Loose
10-29	Medium Dense
30-49	Dense
50+	Very Dense

PROPORTIONS USED

Trace	0-10%
Little	10-20%
Some	20-35%
And	35-50%

LEGEND:
ND = Not Detected
NA = Not Applicable
GS = Ground Surface

BORING/MONITORING WELL LOG

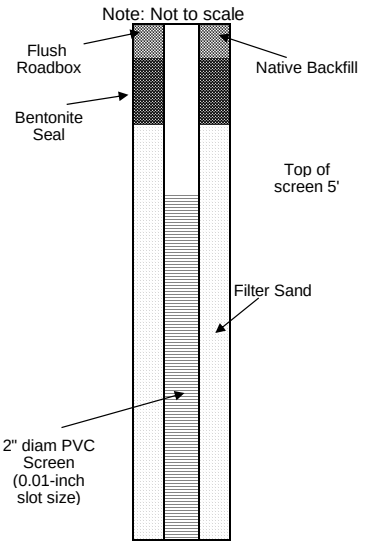
Atlas Technical Consultants LLC
10 State Street, Suite 100
Woburn, MA 01801
Phone: (781) 932-9400 Fax: (781) 932-6211

SITE:	Tuft Street Improvement Project	**WELL/BORING NO.:**	ATC-8
DATE:	3/14/2024	**WEATHER:**	cloudy, 40's
CLIENT:	City of Somerville	**Atlas INSPECTOR:**	Eric Marchese
DRILLING CO.:	Geosearch	**SURFACE ELEVATION:**	not surveyed
DRILLING METHOD:	Direct Push Geoprobe	**DEPTH TO WATER:**	~5.5
SAMPLER METHOD:	Hand auger with vactor, and macrocore	**Atlas Project Number:**	6000007464
AUGER DIAMETER:		**Phase Number:**	02

Sample Interval (feet)	Recovery/ Penetration (in/in)	Blow Counts (per 6")	PID readings (ppm)	Depth (feet)	Soil Log	Materials Description (color, density, size, major and minor constituents, moisture) no well constructed
			0.0	1		4 inches asphalt Pre-clear to 5 ft Light and dark brown, medium to fine SAND, some silt, trace fine gravel, moist around 5.5 feet, no odors or staining
			0.0	2		
			0.0	3		
0-5			0.0	4		
			0.0	5		
				6		
5-10	44/60		0.0 (6-10)	7		Grey and brown, CLAY and fine SAND, wet
				8		
				9		
				10		End of boring at 10 feet
				11		
				12		
				13		
				14		
				15		
				16		
				17		
				18		
				19		
				20		
				21		
				22		
				23		
				24		
				25		
				26		
				27		
				28		
				29		
				30		
				31		
				32		
				33		
				34		
				35		

Well Construction (none)

	(Depth Interval)
CEMENT SEAL:	N/A
NATURAL FILL	N/A
BENTONITE SEAL	N/A
FILTER SAND	N/A
SOLID PVC RISER	N/A
PVC SCREEN	N/A



COMMENTS:
Sampled for VOC/8260 from 0-5 and 5-10 interval

GRANULAR SOILS COHESIVELESS DENSITY

0-4	Very Loose
5-9	Loose
10-29	Medium Dense
30-49	Dense
50+	Very Dense

PROPORTIONS USED

Trace	0-10%
Little	10-20%
Some	20-35%
And	35-50%

LEGEND:
ND = Not Detected
NA = Not Applicable
GS = Ground Surface

APPENDIX E

LABORTORY REPORT

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Stephan Landry
Atlas Technical Consultants LLC
10 State St
Suite 100
Woburn, Massachusetts 01801

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JOB DESCRIPTION

Tufts Street Improvement - Somerville, M

JOB NUMBER

620-17450-1

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

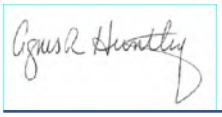
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Revision 1

Authorized for release by
Agnes Huntley, Project Manager
Agnes.Huntley@et.eurofinsus.com
(401)372-3482

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Definitions/Glossary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-17450-1

Project Location: Tufts Street Improvement - Somerville, M | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-17450-1 through 620-17450-18

Matrices: ☑ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☑	7470/7471 Hg CAM III B ☑	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☑	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☑	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes ☑ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 04/03/2024

Job Narrative
620-17450-1

REVISION
The report being provided is a revision of the original report sent on 3/28/2024. The report (revision 1) is being revised due to Report revised as client needed full list 8270 with low-level PAHs.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/18/2024 3:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C.

GC/MS VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270MCP: The following analytes have been identified, in the reference method and/or via historical data, to be poor and/or erratic performers: Benzidine and Benzoic acid. These analytes may have a %D >50%.

Method 8270MCP: The laboratory control sample (LCS) for preparation batch 620-32927 and analytical batch 620-32951 recovered outside control limits for the following analytes: 4-Chloroaniline, Aniline, Benzidine, Benzoic acid and Pyridine. The affected target analytes recovered within acceptance limits, >10%, per MCP criteria therefore, demonstrates the analytical system had sufficient sensitivity to detect the compounds had they been present. Since the affected target compounds were not detected in the samples, the data have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 6010MCP: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 620-33090 and analytical batch 620-33178 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010MCP: The sample duplicate (DUP) precision for preparation batch 620-33090 and analytical batch 620-33178 was outside control limits. Sample non-homogeneity is suspected.

Method 6010MCP: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 620-33090 and analytical batch 620-33178 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Job ID: 620-17450-1 (Continued) Eurofins New England

General Chemistry
Method 1010A: The Pensky Martens closed cup apparatus is designed to determine the flash point of a liquid sample. The sample submitted could not be mixed well enough to obtain uniform heating. The temperature being measured was that of the material near the top of the cup. The material at the bottom of the cup could have a higher temperature. The temperature reported may not be accurate.

Method Moisture: The sample duplicate (DUP) precision for analytical batch 620-32837 was outside control limits. Sample non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-3 (0-5) — Lab Sample ID: 620-17450-1

No Detections.

Client Sample ID: ATC-3 (5-10) — Lab Sample ID: 620-17450-2

No Detections.

Client Sample ID: ATC-2 (0-5) — Lab Sample ID: 620-17450-3

No Detections.

Client Sample ID: ATC-2 (5-10) — Lab Sample ID: 620-17450-4

No Detections.

Client Sample ID: ATC-1 (0-5) — Lab Sample ID: 620-17450-5

No Detections.

Client Sample ID: ATC-1 (5-10) — Lab Sample ID: 620-17450-6

No Detections.

Client Sample ID: Comp (0-5) — Lab Sample ID: 620-17450-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	28.7		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Anthracene	33.8		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Benzo[a]anthracene	148		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Benzo[a]pyrene	175		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Benzo[b]fluoranthene	179		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Benzo[g,h,i]perylene	136		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Benzo[k]fluoranthene	165		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Chrysene	156		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Dibenz(a,h)anthracene	41.0		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Fluoranthene	256		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Indeno[1,2,3-cd]pyrene	112		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Phenanthrene	102		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Pyrene	259		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Bis(2-ethylhexyl) phthalate	50.8		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
TEPH (C9-C36)	90.2		15.2		mg/Kg	1	☼	8100	Total/NA
Barium	45.9		2.10		mg/Kg	2	☼	6010D	Total/NA
Chromium	13.6	F1	2.10		mg/Kg	2	☼	6010D	Total/NA
Lead	21.0		3.15		mg/Kg	2	☼	6010D	Total/NA
Flashpoint	>184		50.0		Degrees F	1		1010A	Total/NA
Total Organic Carbon	4780	F1	300		mg/Kg	1		9060	Total/NA
pH	8.4				SU	1		9045D	Soluble
Temperature	23.4				Degrees C	1		9045D	Soluble
Specific Conductance	1200		10.0		uS/cm	1		SM 2510B	Soluble

Client Sample ID: Comp (5-10) — Lab Sample ID: 620-17450-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
TEPH (C9-C36)	16.7		14.9		mg/Kg	1	☼	8100	Total/NA
Arsenic	3.60		2.88		mg/Kg	2	☼	6010D	Total/NA
Barium	39.3		1.92		mg/Kg	2	☼	6010D	Total/NA
Chromium	17.4		1.92		mg/Kg	2	☼	6010D	Total/NA
Lead	5.34		2.88		mg/Kg	2	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Comp (5-10) (Continued)
Lab Sample ID: 620-17450-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>170		50.0		Degrees F	1		1010A	Total/NA
Total Organic Carbon	1620		300		mg/Kg	1		9060	Total/NA
pH	7.9				SU	1		9045D	Soluble
Temperature	23.4				Degrees C	1		9045D	Soluble
Specific Conductance	601		10.0		uS/cm	1		SM 2510B	Soluble

Client Sample ID: ATC-8 (0-5)
Lab Sample ID: 620-17450-9

No Detections.

Client Sample ID: ATC-8 (5-10)
Lab Sample ID: 620-17450-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	13.4		4.94		ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: ATC-7 (0-5)
Lab Sample ID: 620-17450-11

No Detections.

Client Sample ID: ATC-7 (5-10)
Lab Sample ID: 620-17450-12

No Detections.

Client Sample ID: ATC-6 (0-5)
Lab Sample ID: 620-17450-13

No Detections.

Client Sample ID: ATC-6 (5-10)
Lab Sample ID: 620-17450-14

No Detections.

Client Sample ID: ATC-4 (0-5)
Lab Sample ID: 620-17450-15

No Detections.

Client Sample ID: ATC-4 (5-10)
Lab Sample ID: 620-17450-16

No Detections.

Client Sample ID: ATC-5 (0-5)
Lab Sample ID: 620-17450-17

No Detections.

Client Sample ID: ATC-5 (5-10)
Lab Sample ID: 620-17450-18

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-3 (0-5)
Date Collected: 03/15/24 09:10
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-1
Matrix: Solid
Percent Solids: 88.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Acetone	ND		98.4		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Acrylonitrile	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Benzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Bromobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Bromochloromethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Bromodichloromethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Bromoform	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Bromomethane	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
2-Butanone (MEK)	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
n-Butylbenzene	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
sec-Butylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
tert-Butylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Carbon disulfide	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Carbon tetrachloride	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Chlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Chloroethane	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Chloroform	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Chloromethane	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
2-Chlorotoluene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
4-Chlorotoluene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2-Dibromo-3-Chloropropane	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Dibromochloromethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2-Dibromoethane (EDB)	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Dibromomethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2-Dichlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,3-Dichlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,4-Dichlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Dichlorodifluoromethane (Freon 12)	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1-Dichloroethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2-Dichloroethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1-Dichloroethene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
cis-1,2-Dichloroethene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
trans-1,2-Dichloroethene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2-Dichloropropane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,3-Dichloropropane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
2,2-Dichloropropane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1-Dichloropropene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
cis-1,3-Dichloropropene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
trans-1,3-Dichloropropene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Ethylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Hexachlorobutadiene	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
2-Hexanone (MBK)	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Isopropylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
4-Isopropyltoluene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Methyl tert-butyl ether	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
4-Methyl-2-pentanone (MIBK)	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Methylene Chloride	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Naphthalene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-3 (0-5)
Lab Sample ID: 620-17450-1
Date Collected: 03/15/24 09:10
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 88.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Styrene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1,1,2-Tetrachloroethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1,2,2-Tetrachloroethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Tetrachloroethene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Toluene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2,3-Trichlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2,4-Trichlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,3,5-Trichlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1,1-Trichloroethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1,2-Trichloroethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Trichloroethene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Trichlorofluoromethane (Freon 11)	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2,3-Trichloropropane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2,4-Trimethylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,3,5-Trimethylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Vinyl chloride	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
m,p-Xylene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
o-Xylene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Tetrahydrofuran	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Ethyl ether	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Tert-amyl methyl ether	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Ethyl tert-butyl ether	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
di-Isopropyl ether	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
tert-Butanol	ND		197		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,4-Dioxane	ND		197		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
trans-1,4-Dichloro-2-butene	ND		49.2		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Ethanol	ND		1970		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,3-Dichloropropene, Total	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Xylenes, Total	ND		29.5		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:08*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:08*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:08*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-3 (5-10)
Date Collected: 03/15/24 09:30
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-2
Matrix: Solid
Percent Solids: 87.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Acetone	ND		51.6		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Acrylonitrile	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Benzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Bromobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Bromochloromethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Bromodichloromethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Bromoform	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Bromomethane	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
2-Butanone (MEK)	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
n-Butylbenzene	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
sec-Butylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
tert-Butylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Carbon disulfide	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Carbon tetrachloride	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Chlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Chloroethane	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Chloroform	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Chloromethane	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
2-Chlorotoluene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
4-Chlorotoluene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2-Dibromo-3-Chloropropane	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Dibromochloromethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2-Dibromoethane (EDB)	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Dibromomethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2-Dichlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,3-Dichlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,4-Dichlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Dichlorodifluoromethane (Freon 12)	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1-Dichloroethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2-Dichloroethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1-Dichloroethene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
cis-1,2-Dichloroethene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
trans-1,2-Dichloroethene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2-Dichloropropane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,3-Dichloropropane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
2,2-Dichloropropane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1-Dichloropropene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
cis-1,3-Dichloropropene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
trans-1,3-Dichloropropene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Ethylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Hexachlorobutadiene	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
2-Hexanone (MBK)	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Isopropylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
4-Isopropyltoluene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Methyl tert-butyl ether	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
4-Methyl-2-pentanone (MIBK)	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Methylene Chloride	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Naphthalene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-3 (5-10)
Date Collected: 03/15/24 09:30
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-2
Matrix: Solid
Percent Solids: 87.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Styrene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1,1,2-Tetrachloroethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1,2,2-Tetrachloroethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Tetrachloroethene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Toluene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2,3-Trichlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2,4-Trichlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,3,5-Trichlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1,1-Trichloroethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1,2-Trichloroethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Trichloroethene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Trichlorofluoromethane (Freon 11)	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2,3-Trichloropropane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2,4-Trimethylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,3,5-Trimethylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Vinyl chloride	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
m,p-Xylene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
o-Xylene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Tetrahydrofuran	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Ethyl ether	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Tert-amyl methyl ether	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Ethyl tert-butyl ether	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
di-Isopropyl ether	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
tert-Butanol	ND		103		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,4-Dioxane	ND		103		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
trans-1,4-Dichloro-2-butene	ND		25.8		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Ethanol	ND		1030		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,3-Dichloropropene, Total	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Xylenes, Total	ND		15.5		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:33*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:33*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:33*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-2 (0-5)
Date Collected: 03/15/24 10:15
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-3
Matrix: Solid
Percent Solids: 90.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Acetone	ND		54.6		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Acrylonitrile	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Benzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Bromobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Bromochloromethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Bromodichloromethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Bromoform	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Bromomethane	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
2-Butanone (MEK)	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
n-Butylbenzene	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
sec-Butylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
tert-Butylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Carbon disulfide	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Carbon tetrachloride	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Chlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Chloroethane	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Chloroform	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Chloromethane	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
2-Chlorotoluene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
4-Chlorotoluene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2-Dibromo-3-Chloropropane	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Dibromochloromethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2-Dibromoethane (EDB)	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Dibromomethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2-Dichlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,3-Dichlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,4-Dichlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Dichlorodifluoromethane (Freon 12)	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1-Dichloroethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2-Dichloroethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1-Dichloroethene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
cis-1,2-Dichloroethene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
trans-1,2-Dichloroethene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2-Dichloropropane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,3-Dichloropropane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
2,2-Dichloropropane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1-Dichloropropene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
cis-1,3-Dichloropropene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
trans-1,3-Dichloropropene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Ethylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Hexachlorobutadiene	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
2-Hexanone (MBK)	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Isopropylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
4-Isopropyltoluene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Methyl tert-butyl ether	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
4-Methyl-2-pentanone (MIBK)	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Methylene Chloride	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Naphthalene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-2 (0-5)
Date Collected: 03/15/24 10:15
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-3
Matrix: Solid
Percent Solids: 90.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Styrene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1,1,2-Tetrachloroethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1,2,2-Tetrachloroethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Tetrachloroethene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Toluene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2,3-Trichlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2,4-Trichlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,3,5-Trichlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1,1-Trichloroethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1,2-Trichloroethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Trichloroethene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Trichlorofluoromethane (Freon 11)	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2,3-Trichloropropane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2,4-Trimethylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,3,5-Trimethylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Vinyl chloride	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
m,p-Xylene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
o-Xylene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Tetrahydrofuran	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Ethyl ether	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Tert-amyl methyl ether	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Ethyl tert-butyl ether	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
di-Isopropyl ether	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
tert-Butanol	ND		109		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,4-Dioxane	ND		109		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
trans-1,4-Dichloro-2-butene	ND		27.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Ethanol	ND		1090		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,3-Dichloropropene, Total	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Xylenes, Total	ND		16.4		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:58*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:58*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:58*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-2 (5-10)
Date Collected: 03/15/24 11:00
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-4
Matrix: Solid
Percent Solids: 77.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Acetone	ND		64.1		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Acrylonitrile	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Benzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Bromobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Bromochloromethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Bromodichloromethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Bromoform	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Bromomethane	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
2-Butanone (MEK)	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
n-Butylbenzene	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
sec-Butylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
tert-Butylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Carbon disulfide	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Carbon tetrachloride	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Chlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Chloroethane	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Chloroform	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Chloromethane	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
2-Chlorotoluene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
4-Chlorotoluene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2-Dibromo-3-Chloropropane	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Dibromochloromethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2-Dibromoethane (EDB)	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Dibromomethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2-Dichlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,3-Dichlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,4-Dichlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Dichlorodifluoromethane (Freon 12)	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1-Dichloroethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2-Dichloroethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1-Dichloroethene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
cis-1,2-Dichloroethene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
trans-1,2-Dichloroethene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2-Dichloropropane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,3-Dichloropropane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
2,2-Dichloropropane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1-Dichloropropene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
cis-1,3-Dichloropropene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
trans-1,3-Dichloropropene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Ethylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Hexachlorobutadiene	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
2-Hexanone (MBK)	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Isopropylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
4-Isopropyltoluene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Methyl tert-butyl ether	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
4-Methyl-2-pentanone (MIBK)	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Methylene Chloride	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Naphthalene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-2 (5-10)
Date Collected: 03/15/24 11:00
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-4
Matrix: Solid
Percent Solids: 77.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Styrene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1,1,2-Tetrachloroethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1,2,2-Tetrachloroethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Tetrachloroethene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Toluene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2,3-Trichlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2,4-Trichlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,3,5-Trichlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1,1-Trichloroethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1,2-Trichloroethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Trichloroethene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Trichlorofluoromethane (Freon 11)	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2,3-Trichloropropane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2,4-Trimethylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,3,5-Trimethylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Vinyl chloride	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
m,p-Xylene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
o-Xylene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Tetrahydrofuran	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Ethyl ether	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Tert-amyl methyl ether	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Ethyl tert-butyl ether	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
di-Isopropyl ether	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
tert-Butanol	ND		128		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,4-Dioxane	ND		128		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
trans-1,4-Dichloro-2-butene	ND		32.1		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Ethanol	ND		1280		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,3-Dichloropropene, Total	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Xylenes, Total	ND		19.2		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:23*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:23*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:23*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-1 (0-5)
Date Collected: 03/15/24 11:20
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-5
Matrix: Solid
Percent Solids: 88.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Acetone	ND		46.9		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Acrylonitrile	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Benzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Bromobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Bromochloromethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Bromodichloromethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Bromoform	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Bromomethane	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
2-Butanone (MEK)	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
n-Butylbenzene	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
sec-Butylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
tert-Butylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Carbon disulfide	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Carbon tetrachloride	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Chlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Chloroethane	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Chloroform	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Chloromethane	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
2-Chlorotoluene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
4-Chlorotoluene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2-Dibromo-3-Chloropropane	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Dibromochloromethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2-Dibromoethane (EDB)	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Dibromomethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2-Dichlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,3-Dichlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,4-Dichlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Dichlorodifluoromethane (Freon 12)	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1-Dichloroethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2-Dichloroethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1-Dichloroethene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
cis-1,2-Dichloroethene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
trans-1,2-Dichloroethene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2-Dichloropropane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,3-Dichloropropane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
2,2-Dichloropropane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1-Dichloropropene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
cis-1,3-Dichloropropene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
trans-1,3-Dichloropropene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Ethylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Hexachlorobutadiene	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
2-Hexanone (MBK)	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Isopropylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
4-Isopropyltoluene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Methyl tert-butyl ether	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
4-Methyl-2-pentanone (MIBK)	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Methylene Chloride	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Naphthalene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-1 (0-5)
Lab Sample ID: 620-17450-5
Date Collected: 03/15/24 11:20
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 88.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Styrene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1,1,2-Tetrachloroethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1,2,2-Tetrachloroethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Tetrachloroethene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Toluene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2,3-Trichlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2,4-Trichlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,3,5-Trichlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1,1-Trichloroethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1,2-Trichloroethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Trichloroethene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Trichlorofluoromethane (Freon 11)	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2,3-Trichloropropane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2,4-Trimethylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,3,5-Trimethylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Vinyl chloride	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
m,p-Xylene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
o-Xylene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Tetrahydrofuran	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Ethyl ether	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Tert-amyl methyl ether	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Ethyl tert-butyl ether	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
di-Isopropyl ether	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
tert-Butanol	ND		93.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,4-Dioxane	ND		93.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
trans-1,4-Dichloro-2-butene	ND		23.5		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Ethanol	ND		938		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,3-Dichloropropene, Total	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Xylenes, Total	ND		14.1		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:49*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:49*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:49*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-1 (5-10)
Date Collected: 03/15/24 11:30
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-6
Matrix: Solid
Percent Solids: 91.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Acetone	ND		53.2		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Acrylonitrile	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Benzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Bromobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Bromochloromethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Bromodichloromethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Bromoform	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Bromomethane	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
2-Butanone (MEK)	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
n-Butylbenzene	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
sec-Butylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
tert-Butylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Carbon disulfide	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Carbon tetrachloride	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Chlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Chloroethane	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Chloroform	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Chloromethane	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
2-Chlorotoluene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
4-Chlorotoluene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2-Dibromo-3-Chloropropane	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Dibromochloromethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2-Dibromoethane (EDB)	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Dibromomethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2-Dichlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,3-Dichlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,4-Dichlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Dichlorodifluoromethane (Freon 12)	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1-Dichloroethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2-Dichloroethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1-Dichloroethene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
cis-1,2-Dichloroethene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
trans-1,2-Dichloroethene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2-Dichloropropane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,3-Dichloropropane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
2,2-Dichloropropane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1-Dichloropropene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
cis-1,3-Dichloropropene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
trans-1,3-Dichloropropene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Ethylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Hexachlorobutadiene	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
2-Hexanone (MBK)	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Isopropylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
4-Isopropyltoluene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Methyl tert-butyl ether	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
4-Methyl-2-pentanone (MIBK)	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Methylene Chloride	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Naphthalene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-1 (5-10)
Date Collected: 03/15/24 11:30
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-6
Matrix: Solid
Percent Solids: 91.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Styrene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1,1,2-Tetrachloroethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1,2,2-Tetrachloroethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Tetrachloroethene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Toluene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2,3-Trichlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2,4-Trichlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,3,5-Trichlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1,1-Trichloroethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1,2-Trichloroethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Trichloroethene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Trichlorofluoromethane (Freon 11)	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2,3-Trichloropropane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2,4-Trimethylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,3,5-Trimethylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Vinyl chloride	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
m,p-Xylene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
o-Xylene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Tetrahydrofuran	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Ethyl ether	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Tert-amyl methyl ether	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Ethyl tert-butyl ether	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
di-Isopropyl ether	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
tert-Butanol	ND		106		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,4-Dioxane	ND		106		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
trans-1,4-Dichloro-2-butene	ND		26.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Ethanol	ND		1060		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,3-Dichloropropene, Total	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Xylenes, Total	ND		16.0		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:14*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:14*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:14*	*1*

Client Sample ID: Comp (0-5)
Date Collected: 03/15/24 12:00
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-7
Matrix: Solid
Percent Solids: 87.7

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Acenaphthylene	**28.7**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
1-Methylnaphthalene	ND		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Anthracene	**33.8**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzo[a]anthracene	**148**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzo[a]pyrene	**175**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzo[b]fluoranthene	**179**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzo[g,h,i]perylene	**136**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzo[k]fluoranthene	**165**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Chrysene	**156**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Dibenz(a,h)anthracene	**41.0**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Fluoranthene	**256**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Fluorene	ND		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Indeno[1,2,3-cd]pyrene	**112**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2-Methylnaphthalene	ND		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Naphthalene	ND		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Phenanthrene	**102**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Pyrene	**259**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Bis(2-ethylhexyl) phthalate	**50.8**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*43*		*30 - 130*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
Terphenyl-d14 (Surr)	*76*		*30 - 130*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
2-Fluorobiphenyl (Surr)	*51*		*30 - 130*	*03/21/24 08:36*	*03/21/24 15:49*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
1,2,4-Trichlorobenzene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
1,2-Dichlorobenzene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
1,3-Dichlorobenzene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
1,4-Dichlorobenzene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,4,5-Trichlorophenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,4,6-Trichlorophenol	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,4-Dichlorophenol	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,4-Dimethylphenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,4-Dinitrophenol	ND		733		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,4-Dinitrotoluene	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,6-Dinitrotoluene	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2-Chloronaphthalene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2-Chlorophenol	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2-Methylphenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2-Nitroaniline	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2-Nitrophenol	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
3 & 4 Methylphenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
3,3'-Dichlorobenzidine	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
3-Nitroaniline	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
4,6-Dinitro-2-methylphenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
4-Bromophenyl phenyl ether	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
4-Chloro-3-methylphenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1

Client Sample ID: Comp (0-5)
Lab Sample ID: 620-17450-7
Date Collected: 03/15/24 12:00
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 87.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND	*-	185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
4-Chlorophenyl phenyl ether	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
4-Nitroaniline	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
4-Nitrophenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Acetophenone	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Aniline	ND	*-	366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Azobenzene/Diphenyldiazene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzidine	ND	*-	733		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzoic acid	ND	*-	740		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzyl alcohol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Bis(2-chloroethoxy)methane	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Bis(2-chloroethyl)ether	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
bis (2-chloroisopropyl) ether	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Bis(2-ethylhexyl) phthalate	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Butyl benzyl phthalate	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Carbazole	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Dibenzofuran	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Diethyl phthalate	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Dimethyl phthalate	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Di-n-butyl phthalate	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Di-n-octyl phthalate	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Hexachlorobenzene	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Hexachlorobutadiene	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Hexachlorocyclopentadiene	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Hexachloroethane	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Isophorone	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Nitrobenzene	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
N-Nitrosodimethylamine	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
N-Nitrosodi-n-propylamine	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
N-Nitrosodiphenylamine	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Pentachloronitrobenzene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Pentachlorophenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Phenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Pyridine	ND	*-	366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*50*		*30 - 130*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
2-Fluorophenol (Surr)	*50*		*15 - 110*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
Nitrobenzene-d5 (Surr)	*39*		*30 - 130*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
Phenol-d5 (Surr)	*54*		*15 - 110*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*15 - 110*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
Terphenyl-d14 (Surr)	*76*		*30 - 130*	*03/21/24 08:36*	*03/21/24 15:49*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1221	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1232	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1242	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1248	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1

Client Sample ID: Comp (0-5)
Lab Sample ID: 620-17450-7

Date Collected: 03/15/24 12:00
Matrix: Solid

Date Received: 03/18/24 15:25
Percent Solids: 87.7

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1262	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1260	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1268	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*30 - 150*	*03/19/24 14:48*	*03/21/24 23:56*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*30 - 150*	*03/19/24 14:48*	*03/21/24 23:56*	*1*

Method: SW846 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TEPH (C9-C36)	**90.2**		15.2		mg/Kg	☼	03/19/24 17:07	03/21/24 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*100*		*40 - 140*	*03/19/24 17:07*	*03/21/24 15:35*	*1*
o-Terphenyl (Surr)	*72*		*40 - 140*	*03/19/24 17:07*	*03/21/24 15:35*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	F1	3.15		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2
Barium	**45.9**		2.10		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2
Cadmium	ND		1.05		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2
Chromium	**13.6**	**F1**	2.10		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2
Lead	**21.0**		3.15		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2
Selenium	ND	F1	3.15		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2
Silver	ND	F1	3.15		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0150		mg/L		03/26/24 15:40	03/27/24 13:47	1

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0530		mg/Kg	☼	03/19/24 11:28	03/19/24 15:44	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010A)	**>184**		50.0		Degrees F			03/21/24 10:01	1
Cyanide, Reactive (SW846 9012)	ND		57.7		mg/Kg		03/25/24 08:25	03/25/24 17:06	1
Sulfide, Reactive (SW846 9034)	ND		154		mg/Kg		03/25/24 08:25	03/25/24 12:45	1
Total Organic Carbon (SW846 9060)	**4780**	**F1**	300		mg/Kg			03/21/24 13:08	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**8.4**				SU			03/28/24 11:32	1
Temperature (SW846 9045D)	**23.4**				Degrees C			03/28/24 11:32	1
Specific Conductance (SM 2510B)	**1200**		10.0		uS/cm			03/28/24 11:04	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: Comp (5-10)

Date Collected: 03/15/24 12:15
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-8

Matrix: Solid
Percent Solids: 87.4

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Acenaphthylene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
1-Methylnaphthalene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Anthracene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzo[a]anthracene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzo[a]pyrene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzo[b]fluoranthene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzo[g,h,i]perylene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzo[k]fluoranthene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Chrysene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Dibenz(a,h)anthracene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Fluoranthene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Fluorene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Indeno[1,2,3-cd]pyrene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2-Methylnaphthalene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Naphthalene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Phenanthrene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Pyrene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Bis(2-ethylhexyl) phthalate	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*46*		*30 - 130*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
Terphenyl-d14 (Surr)	*65*		*30 - 130*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
2-Fluorobiphenyl (Surr)	*41*		*30 - 130*	*03/21/24 08:36*	*03/21/24 16:14*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
1,2,4-Trichlorobenzene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
1,2-Dichlorobenzene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
1,3-Dichlorobenzene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
1,4-Dichlorobenzene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,4,5-Trichlorophenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,4,6-Trichlorophenol	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,4-Dichlorophenol	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,4-Dimethylphenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,4-Dinitrophenol	ND		737		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,4-Dinitrotoluene	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,6-Dinitrotoluene	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2-Chloronaphthalene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2-Chlorophenol	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2-Methylphenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2-Nitroaniline	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2-Nitrophenol	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
3 & 4 Methylphenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
3,3'-Dichlorobenzidine	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
3-Nitroaniline	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
4,6-Dinitro-2-methylphenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
4-Bromophenyl phenyl ether	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
4-Chloro-3-methylphenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: Comp (5-10)
Date Collected: 03/15/24 12:15
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-8
Matrix: Solid
Percent Solids: 87.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND	*-	186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
4-Chlorophenyl phenyl ether	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
4-Nitroaniline	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
4-Nitrophenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Acetophenone	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Aniline	ND	*-	368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Azobenzene/Diphenyldiazene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzidine	ND	*-	737		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzoic acid	ND	*-	744		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzyl alcohol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Bis(2-chloroethoxy)methane	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Bis(2-chloroethyl)ether	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
bis (2-chloroisopropyl) ether	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Bis(2-ethylhexyl) phthalate	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Butyl benzyl phthalate	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Carbazole	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Dibenzofuran	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Diethyl phthalate	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Dimethyl phthalate	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Di-n-butyl phthalate	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Di-n-octyl phthalate	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Hexachlorobenzene	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Hexachlorobutadiene	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Hexachlorocyclopentadiene	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Hexachloroethane	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Isophorone	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Nitrobenzene	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
N-Nitrosodimethylamine	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
N-Nitrosodi-n-propylamine	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
N-Nitrosodiphenylamine	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Pentachloronitrobenzene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Pentachlorophenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Phenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Pyridine	ND	*-	368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*41*		*30 - 130*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
2-Fluorophenol (Surr)	*45*		*15 - 110*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
Nitrobenzene-d5 (Surr)	*42*		*30 - 130*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
Phenol-d5 (Surr)	*45*		*15 - 110*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
2,4,6-Tribromophenol (Surr)	*48*		*15 - 110*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
Terphenyl-d14 (Surr)	*65*		*30 - 130*	*03/21/24 08:36*	*03/21/24 16:14*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1221	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1232	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1242	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1248	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1

Client Sample ID: Comp (5-10)
Lab Sample ID: 620-17450-8

Date Collected: 03/15/24 12:15
Matrix: Solid

Date Received: 03/18/24 15:25
Percent Solids: 87.4

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1262	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1260	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1268	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*30 - 150*	*03/19/24 14:48*	*03/22/24 00:14*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*30 - 150*	*03/19/24 14:48*	*03/22/24 00:14*	*1*

Method: SW846 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TEPH (C9-C36)	**16.7**		14.9		mg/Kg	☼	03/19/24 17:07	03/21/24 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*84*		*40 - 140*	*03/19/24 17:07*	*03/21/24 15:57*	*1*
o-Terphenyl (Surr)	*73*		*40 - 140*	*03/19/24 17:07*	*03/21/24 15:57*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.60**		2.88		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2
Barium	**39.3**		1.92		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2
Cadmium	ND		0.961		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2
Chromium	**17.4**		1.92		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2
Lead	**5.34**		2.88		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2
Selenium	ND		2.88		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2
Silver	ND		2.88		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0150		mg/L		03/26/24 15:40	03/27/24 13:23	1

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0512		mg/Kg	☼	03/19/24 11:28	03/19/24 15:46	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010A)	**>170**		50.0		Degrees F			03/21/24 10:01	1
Cyanide, Reactive (SW846 9012)	ND		59.9		mg/Kg		03/25/24 08:25	03/25/24 17:07	1
Sulfide, Reactive (SW846 9034)	ND		160		mg/Kg		03/25/24 08:25	03/25/24 12:45	1
Total Organic Carbon (SW846 9060)	**1620**		300		mg/Kg			03/21/24 13:29	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**7.9**				SU			03/28/24 11:32	1
Temperature (SW846 9045D)	**23.4**				Degrees C			03/28/24 11:32	1
Specific Conductance (SM 2510B)	**601**		10.0		uS/cm			03/28/24 11:04	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-8 (0-5)
Date Collected: 03/14/24 10:00
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-9
Matrix: Solid
Percent Solids: 88.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Acetone	ND		61.9		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Acrylonitrile	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Benzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Bromobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Bromochloromethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Bromodichloromethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Bromoform	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Bromomethane	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
2-Butanone (MEK)	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
n-Butylbenzene	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
sec-Butylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
tert-Butylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Carbon disulfide	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Carbon tetrachloride	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Chlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Chloroethane	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Chloroform	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Chloromethane	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
2-Chlorotoluene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
4-Chlorotoluene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2-Dibromo-3-Chloropropane	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Dibromochloromethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2-Dibromoethane (EDB)	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Dibromomethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2-Dichlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,3-Dichlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,4-Dichlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Dichlorodifluoromethane (Freon 12)	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1-Dichloroethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2-Dichloroethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1-Dichloroethene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
cis-1,2-Dichloroethene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
trans-1,2-Dichloroethene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2-Dichloropropane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,3-Dichloropropane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
2,2-Dichloropropane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1-Dichloropropene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
cis-1,3-Dichloropropene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
trans-1,3-Dichloropropene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Ethylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Hexachlorobutadiene	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
2-Hexanone (MBK)	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Isopropylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
4-Isopropyltoluene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Methyl tert-butyl ether	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
4-Methyl-2-pentanone (MIBK)	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Methylene Chloride	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Naphthalene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-8 (0-5)
Date Collected: 03/14/24 10:00
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-9
Matrix: Solid
Percent Solids: 88.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Styrene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1,1,2-Tetrachloroethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1,2,2-Tetrachloroethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Tetrachloroethene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Toluene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2,3-Trichlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2,4-Trichlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,3,5-Trichlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1,1-Trichloroethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1,2-Trichloroethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Trichloroethene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Trichlorofluoromethane (Freon 11)	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2,3-Trichloropropane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2,4-Trimethylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,3,5-Trimethylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Vinyl chloride	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
m,p-Xylene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
o-Xylene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Tetrahydrofuran	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Ethyl ether	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Tert-amyl methyl ether	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Ethyl tert-butyl ether	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
di-Isopropyl ether	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
tert-Butanol	ND		124		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,4-Dioxane	ND		124		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
trans-1,4-Dichloro-2-butene	ND		31.0		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Ethanol	ND		1240		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,3-Dichloropropene, Total	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Xylenes, Total	ND		18.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:40*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:40*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:40*	*1*

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-8 (5-10)
Lab Sample ID: 620-17450-10
Date Collected: 03/14/24 11:50
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 77.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Acetone	ND		49.4		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Acrylonitrile	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Benzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Bromobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Bromochloromethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Bromodichloromethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Bromoform	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Bromomethane	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
2-Butanone (MEK)	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
n-Butylbenzene	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
sec-Butylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
tert-Butylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Carbon disulfide	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Carbon tetrachloride	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Chlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Chloroethane	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Chloroform	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Chloromethane	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
2-Chlorotoluene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
4-Chlorotoluene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2-Dibromo-3-Chloropropane	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Dibromochloromethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2-Dibromoethane (EDB)	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Dibromomethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2-Dichlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,3-Dichlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,4-Dichlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Dichlorodifluoromethane (Freon 12)	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1-Dichloroethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2-Dichloroethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1-Dichloroethene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
cis-1,2-Dichloroethene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
trans-1,2-Dichloroethene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2-Dichloropropane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,3-Dichloropropane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
2,2-Dichloropropane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1-Dichloropropene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
cis-1,3-Dichloropropene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
trans-1,3-Dichloropropene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Ethylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Hexachlorobutadiene	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
2-Hexanone (MBK)	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Isopropylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
4-Isopropyltoluene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Methyl tert-butyl ether	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
4-Methyl-2-pentanone (MIBK)	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Methylene Chloride	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Naphthalene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-8 (5-10)
Lab Sample ID: 620-17450-10
Date Collected: 03/14/24 11:50
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 77.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Styrene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1,1,2-Tetrachloroethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1,2,2-Tetrachloroethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Tetrachloroethene	**13.4**		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Toluene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2,3-Trichlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2,4-Trichlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,3,5-Trichlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1,1-Trichloroethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1,2-Trichloroethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Trichloroethene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Trichlorofluoromethane (Freon 11)	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2,3-Trichloropropane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2,4-Trimethylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,3,5-Trimethylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Vinyl chloride	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
m,p-Xylene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
o-Xylene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Tetrahydrofuran	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Ethyl ether	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Tert-amyl methyl ether	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Ethyl tert-butyl ether	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
di-Isopropyl ether	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
tert-Butanol	ND		98.8		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,4-Dioxane	ND		98.8		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
trans-1,4-Dichloro-2-butene	ND		24.7		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Ethanol	ND		988		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,3-Dichloropropene, Total	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Xylenes, Total	ND		14.8		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:06*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:06*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:06*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-7 (0-5)
Date Collected: 03/14/24 11:10
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-11
Matrix: Solid
Percent Solids: 91.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Acetone	ND		46.7		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Acrylonitrile	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Benzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Bromobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Bromochloromethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Bromodichloromethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Bromoform	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Bromomethane	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
2-Butanone (MEK)	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
n-Butylbenzene	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
sec-Butylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
tert-Butylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Carbon disulfide	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Carbon tetrachloride	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Chlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Chloroethane	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Chloroform	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Chloromethane	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
2-Chlorotoluene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
4-Chlorotoluene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2-Dibromo-3-Chloropropane	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Dibromochloromethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2-Dibromoethane (EDB)	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Dibromomethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2-Dichlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,3-Dichlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,4-Dichlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Dichlorodifluoromethane (Freon 12)	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1-Dichloroethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2-Dichloroethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1-Dichloroethene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
cis-1,2-Dichloroethene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
trans-1,2-Dichloroethene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2-Dichloropropane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,3-Dichloropropane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
2,2-Dichloropropane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1-Dichloropropene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
cis-1,3-Dichloropropene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
trans-1,3-Dichloropropene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Ethylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Hexachlorobutadiene	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
2-Hexanone (MBK)	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Isopropylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
4-Isopropyltoluene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Methyl tert-butyl ether	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
4-Methyl-2-pentanone (MIBK)	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Methylene Chloride	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Naphthalene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-7 (0-5)
Date Collected: 03/14/24 11:10
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-11
Matrix: Solid
Percent Solids: 91.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Styrene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1,1,2-Tetrachloroethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1,2,2-Tetrachloroethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Tetrachloroethene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Toluene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2,3-Trichlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2,4-Trichlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,3,5-Trichlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1,1-Trichloroethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1,2-Trichloroethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Trichloroethene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Trichlorofluoromethane (Freon 11)	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2,3-Trichloropropane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2,4-Trimethylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,3,5-Trimethylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Vinyl chloride	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
m,p-Xylene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
o-Xylene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Tetrahydrofuran	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Ethyl ether	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Tert-amyl methyl ether	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Ethyl tert-butyl ether	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
di-Isopropyl ether	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
tert-Butanol	ND		93.4		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,4-Dioxane	ND		93.4		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
trans-1,4-Dichloro-2-butene	ND		23.4		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Ethanol	ND		934		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,3-Dichloropropene, Total	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Xylenes, Total	ND		14.0		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:31*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:31*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:31*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-7 (5-10)
Date Collected: 03/14/24 12:10
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-12
Matrix: Solid
Percent Solids: 78.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Acetone	ND		126		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Acrylonitrile	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Benzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Bromobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Bromochloromethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Bromodichloromethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Bromoform	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Bromomethane	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
2-Butanone (MEK)	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
n-Butylbenzene	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
sec-Butylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
tert-Butylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Carbon disulfide	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Carbon tetrachloride	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Chlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Chloroethane	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Chloroform	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Chloromethane	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
2-Chlorotoluene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
4-Chlorotoluene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2-Dibromo-3-Chloropropane	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Dibromochloromethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2-Dibromoethane (EDB)	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Dibromomethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2-Dichlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,3-Dichlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,4-Dichlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Dichlorodifluoromethane (Freon 12)	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1-Dichloroethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2-Dichloroethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1-Dichloroethene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
cis-1,2-Dichloroethene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
trans-1,2-Dichloroethene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2-Dichloropropane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,3-Dichloropropane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
2,2-Dichloropropane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1-Dichloropropene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
cis-1,3-Dichloropropene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
trans-1,3-Dichloropropene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Ethylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Hexachlorobutadiene	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
2-Hexanone (MBK)	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Isopropylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
4-Isopropyltoluene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Methyl tert-butyl ether	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
4-Methyl-2-pentanone (MIBK)	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Methylene Chloride	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Naphthalene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-7 (5-10)
Lab Sample ID: 620-17450-12
Date Collected: 03/14/24 12:10
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 78.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Styrene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1,1,2-Tetrachloroethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1,2,2-Tetrachloroethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Tetrachloroethene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Toluene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2,3-Trichlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2,4-Trichlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,3,5-Trichlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1,1-Trichloroethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1,2-Trichloroethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Trichloroethene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Trichlorofluoromethane (Freon 11)	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2,3-Trichloropropane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2,4-Trimethylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,3,5-Trimethylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Vinyl chloride	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
m,p-Xylene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
o-Xylene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Tetrahydrofuran	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Ethyl ether	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Tert-amyl methyl ether	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Ethyl tert-butyl ether	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
di-Isopropyl ether	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
tert-Butanol	ND		253		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,4-Dioxane	ND		253		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
trans-1,4-Dichloro-2-butene	ND		63.2		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Ethanol	ND		2530		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,3-Dichloropropene, Total	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Xylenes, Total	ND		37.9		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:57*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:57*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:57*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-6 (0-5)
Date Collected: 03/14/24 12:30
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-13
Matrix: Solid
Percent Solids: 89.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Acetone	ND		52.1		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Acrylonitrile	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Benzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Bromobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Bromochloromethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Bromodichloromethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Bromoform	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Bromomethane	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
2-Butanone (MEK)	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
n-Butylbenzene	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
sec-Butylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
tert-Butylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Carbon disulfide	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Carbon tetrachloride	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Chlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Chloroethane	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Chloroform	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Chloromethane	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
2-Chlorotoluene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
4-Chlorotoluene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2-Dibromo-3-Chloropropane	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Dibromochloromethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2-Dibromoethane (EDB)	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Dibromomethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2-Dichlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,3-Dichlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,4-Dichlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Dichlorodifluoromethane (Freon 12)	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1-Dichloroethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2-Dichloroethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1-Dichloroethene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
cis-1,2-Dichloroethene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
trans-1,2-Dichloroethene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2-Dichloropropane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,3-Dichloropropane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
2,2-Dichloropropane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1-Dichloropropene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
cis-1,3-Dichloropropene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
trans-1,3-Dichloropropene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Ethylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Hexachlorobutadiene	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
2-Hexanone (MBK)	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Isopropylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
4-Isopropyltoluene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Methyl tert-butyl ether	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
4-Methyl-2-pentanone (MIBK)	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Methylene Chloride	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Naphthalene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-6 (0-5)
Date Collected: 03/14/24 12:30
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-13
Matrix: Solid
Percent Solids: 89.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Styrene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1,1,2-Tetrachloroethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1,2,2-Tetrachloroethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Tetrachloroethene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Toluene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2,3-Trichlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2,4-Trichlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,3,5-Trichlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1,1-Trichloroethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1,2-Trichloroethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Trichloroethene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Trichlorofluoromethane (Freon 11)	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2,3-Trichloropropane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2,4-Trimethylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,3,5-Trimethylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Vinyl chloride	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
m,p-Xylene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
o-Xylene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Tetrahydrofuran	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Ethyl ether	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Tert-amyl methyl ether	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Ethyl tert-butyl ether	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
di-Isopropyl ether	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
tert-Butanol	ND		104		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,4-Dioxane	ND		104		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
trans-1,4-Dichloro-2-butene	ND		26.1		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Ethanol	ND		1040		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,3-Dichloropropene, Total	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Xylenes, Total	ND		15.6		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:24*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:24*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:24*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-6 (5-10)
Date Collected: 03/14/24 12:45
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-14
Matrix: Solid
Percent Solids: 92.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Acetone	ND		57.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Acrylonitrile	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Benzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Bromobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Bromochloromethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Bromodichloromethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Bromoform	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Bromomethane	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
2-Butanone (MEK)	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
n-Butylbenzene	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
sec-Butylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
tert-Butylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Carbon disulfide	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Carbon tetrachloride	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Chlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Chloroethane	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Chloroform	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Chloromethane	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
2-Chlorotoluene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
4-Chlorotoluene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2-Dibromo-3-Chloropropane	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Dibromochloromethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2-Dibromoethane (EDB)	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Dibromomethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2-Dichlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,3-Dichlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,4-Dichlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Dichlorodifluoromethane (Freon 12)	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1-Dichloroethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2-Dichloroethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1-Dichloroethene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
cis-1,2-Dichloroethene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
trans-1,2-Dichloroethene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2-Dichloropropane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,3-Dichloropropane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
2,2-Dichloropropane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1-Dichloropropene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
cis-1,3-Dichloropropene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
trans-1,3-Dichloropropene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Ethylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Hexachlorobutadiene	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
2-Hexanone (MBK)	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Isopropylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
4-Isopropyltoluene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Methyl tert-butyl ether	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
4-Methyl-2-pentanone (MIBK)	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Methylene Chloride	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Naphthalene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-6 (5-10)
Lab Sample ID: 620-17450-14
Date Collected: 03/14/24 12:45
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 92.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Styrene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1,1,2-Tetrachloroethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1,2,2-Tetrachloroethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Tetrachloroethene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Toluene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2,3-Trichlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2,4-Trichlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,3,5-Trichlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1,1-Trichloroethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1,2-Trichloroethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Trichloroethene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Trichlorofluoromethane (Freon 11)	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2,3-Trichloropropane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2,4-Trimethylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,3,5-Trimethylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Vinyl chloride	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
m,p-Xylene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
o-Xylene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Tetrahydrofuran	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Ethyl ether	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Tert-amyl methyl ether	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Ethyl tert-butyl ether	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
di-Isopropyl ether	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
tert-Butanol	ND		115		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,4-Dioxane	ND		115		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
trans-1,4-Dichloro-2-butene	ND		28.8		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Ethanol	ND		1150		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,3-Dichloropropene, Total	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Xylenes, Total	ND		17.3		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:50*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:50*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:50*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-4 (0-5)
Date Collected: 03/14/24 13:40
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-15
Matrix: Solid
Percent Solids: 89.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Acetone	ND		50.4		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Acrylonitrile	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Benzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Bromobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Bromochloromethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Bromodichloromethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Bromoform	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Bromomethane	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
2-Butanone (MEK)	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
n-Butylbenzene	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
sec-Butylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
tert-Butylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Carbon disulfide	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Carbon tetrachloride	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Chlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Chloroethane	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Chloroform	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Chloromethane	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
2-Chlorotoluene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
4-Chlorotoluene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2-Dibromo-3-Chloropropane	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Dibromochloromethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2-Dibromoethane (EDB)	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Dibromomethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2-Dichlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,3-Dichlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,4-Dichlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Dichlorodifluoromethane (Freon 12)	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1-Dichloroethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2-Dichloroethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1-Dichloroethene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
cis-1,2-Dichloroethene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
trans-1,2-Dichloroethene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2-Dichloropropane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,3-Dichloropropane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
2,2-Dichloropropane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1-Dichloropropene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
cis-1,3-Dichloropropene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
trans-1,3-Dichloropropene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Ethylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Hexachlorobutadiene	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
2-Hexanone (MBK)	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Isopropylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
4-Isopropyltoluene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Methyl tert-butyl ether	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
4-Methyl-2-pentanone (MIBK)	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Methylene Chloride	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Naphthalene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-4 (0-5)
Lab Sample ID: 620-17450-15
Date Collected: 03/14/24 13:40
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 89.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Styrene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1,1,2-Tetrachloroethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1,2,2-Tetrachloroethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Tetrachloroethene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Toluene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2,3-Trichlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2,4-Trichlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,3,5-Trichlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1,1-Trichloroethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1,2-Trichloroethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Trichloroethene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Trichlorofluoromethane (Freon 11)	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2,3-Trichloropropane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2,4-Trimethylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,3,5-Trimethylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Vinyl chloride	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
m,p-Xylene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
o-Xylene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Tetrahydrofuran	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Ethyl ether	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Tert-amyl methyl ether	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Ethyl tert-butyl ether	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
di-Isopropyl ether	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
tert-Butanol	ND		101		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,4-Dioxane	ND		101		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
trans-1,4-Dichloro-2-butene	ND		25.2		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Ethanol	ND		1010		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,3-Dichloropropene, Total	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Xylenes, Total	ND		15.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:15*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:15*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:15*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-4 (5-10)
Date Collected: 03/14/24 13:55
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-16
Matrix: Solid
Percent Solids: 92.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Acetone	ND		52.6		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Acrylonitrile	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Benzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Bromobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Bromochloromethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Bromodichloromethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Bromoform	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Bromomethane	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
2-Butanone (MEK)	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
n-Butylbenzene	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
sec-Butylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
tert-Butylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Carbon disulfide	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Carbon tetrachloride	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Chlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Chloroethane	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Chloroform	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Chloromethane	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
2-Chlorotoluene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
4-Chlorotoluene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2-Dibromo-3-Chloropropane	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Dibromochloromethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2-Dibromoethane (EDB)	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Dibromomethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2-Dichlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,3-Dichlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,4-Dichlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Dichlorodifluoromethane (Freon 12)	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1-Dichloroethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2-Dichloroethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1-Dichloroethene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
cis-1,2-Dichloroethene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
trans-1,2-Dichloroethene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2-Dichloropropane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,3-Dichloropropane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
2,2-Dichloropropane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1-Dichloropropene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
cis-1,3-Dichloropropene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
trans-1,3-Dichloropropene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Ethylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Hexachlorobutadiene	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
2-Hexanone (MBK)	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Isopropylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
4-Isopropyltoluene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Methyl tert-butyl ether	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
4-Methyl-2-pentanone (MIBK)	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Methylene Chloride	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Naphthalene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-4 (5-10)
Lab Sample ID: 620-17450-16
Date Collected: 03/14/24 13:55
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 92.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Styrene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1,1,2-Tetrachloroethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1,2,2-Tetrachloroethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Tetrachloroethene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Toluene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2,3-Trichlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2,4-Trichlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,3,5-Trichlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1,1-Trichloroethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1,2-Trichloroethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Trichloroethene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Trichlorofluoromethane (Freon 11)	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2,3-Trichloropropane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2,4-Trimethylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,3,5-Trimethylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Vinyl chloride	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
m,p-Xylene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
o-Xylene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Tetrahydrofuran	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Ethyl ether	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Tert-amyl methyl ether	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Ethyl tert-butyl ether	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
di-Isopropyl ether	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
tert-Butanol	ND		105		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,4-Dioxane	ND		105		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
trans-1,4-Dichloro-2-butene	ND		26.3		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Ethanol	ND		1050		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,3-Dichloropropene, Total	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Xylenes, Total	ND		15.8		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:41*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:41*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:41*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-5 (0-5)
Date Collected: 03/14/24 14:25
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-17
Matrix: Solid
Percent Solids: 89.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Acetone	ND		49.2		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Acrylonitrile	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Benzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Bromobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Bromochloromethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Bromodichloromethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Bromoform	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Bromomethane	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
2-Butanone (MEK)	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
n-Butylbenzene	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
sec-Butylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
tert-Butylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Carbon disulfide	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Carbon tetrachloride	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Chlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Chloroethane	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Chloroform	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Chloromethane	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
2-Chlorotoluene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
4-Chlorotoluene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2-Dibromo-3-Chloropropane	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Dibromochloromethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2-Dibromoethane (EDB)	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Dibromomethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2-Dichlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,3-Dichlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,4-Dichlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Dichlorodifluoromethane (Freon 12)	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1-Dichloroethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2-Dichloroethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1-Dichloroethene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
cis-1,2-Dichloroethene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
trans-1,2-Dichloroethene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2-Dichloropropane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,3-Dichloropropane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
2,2-Dichloropropane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1-Dichloropropene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
cis-1,3-Dichloropropene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
trans-1,3-Dichloropropene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Ethylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Hexachlorobutadiene	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
2-Hexanone (MBK)	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Isopropylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
4-Isopropyltoluene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Methyl tert-butyl ether	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
4-Methyl-2-pentanone (MIBK)	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Methylene Chloride	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Naphthalene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-5 (0-5)
Lab Sample ID: 620-17450-17
Date Collected: 03/14/24 14:25
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 89.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Styrene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1,1,2-Tetrachloroethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1,2,2-Tetrachloroethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Tetrachloroethene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Toluene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2,3-Trichlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2,4-Trichlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,3,5-Trichlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1,1-Trichloroethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1,2-Trichloroethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Trichloroethene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Trichlorofluoromethane (Freon 11)	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2,3-Trichloropropane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2,4-Trimethylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,3,5-Trimethylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Vinyl chloride	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
m,p-Xylene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
o-Xylene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Tetrahydrofuran	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Ethyl ether	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Tert-amyl methyl ether	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Ethyl tert-butyl ether	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
di-Isopropyl ether	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
tert-Butanol	ND		98.5		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,4-Dioxane	ND		98.5		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
trans-1,4-Dichloro-2-butene	ND		24.6		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Ethanol	ND		985		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,3-Dichloropropene, Total	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Xylenes, Total	ND		14.8		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:07*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:07*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:07*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-5 (5-10)
Date Collected: 03/14/24 12:10
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-18
Matrix: Solid
Percent Solids: 92.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Acetone	ND		44.3		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Acrylonitrile	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Benzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Bromobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Bromochloromethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Bromodichloromethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Bromoform	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Bromomethane	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
2-Butanone (MEK)	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
n-Butylbenzene	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
sec-Butylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
tert-Butylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Carbon disulfide	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Carbon tetrachloride	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Chlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Chloroethane	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Chloroform	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Chloromethane	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
2-Chlorotoluene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
4-Chlorotoluene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2-Dibromo-3-Chloropropane	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Dibromochloromethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2-Dibromoethane (EDB)	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Dibromomethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2-Dichlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,3-Dichlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,4-Dichlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Dichlorodifluoromethane (Freon 12)	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1-Dichloroethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2-Dichloroethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1-Dichloroethene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
cis-1,2-Dichloroethene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
trans-1,2-Dichloroethene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2-Dichloropropane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,3-Dichloropropane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
2,2-Dichloropropane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1-Dichloropropene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
cis-1,3-Dichloropropene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
trans-1,3-Dichloropropene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Ethylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Hexachlorobutadiene	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
2-Hexanone (MBK)	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Isopropylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
4-Isopropyltoluene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Methyl tert-butyl ether	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
4-Methyl-2-pentanone (MIBK)	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Methylene Chloride	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Naphthalene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-5 (5-10)
Date Collected: 03/14/24 12:10
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-18
Matrix: Solid
Percent Solids: 92.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Styrene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1,1,2-Tetrachloroethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1,2,2-Tetrachloroethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Tetrachloroethene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Toluene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2,3-Trichlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2,4-Trichlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,3,5-Trichlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1,1-Trichloroethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1,2-Trichloroethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Trichloroethene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Trichlorofluoromethane (Freon 11)	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2,3-Trichloropropane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2,4-Trimethylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,3,5-Trimethylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Vinyl chloride	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
m,p-Xylene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
o-Xylene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Tetrahydrofuran	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Ethyl ether	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Tert-amyl methyl ether	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Ethyl tert-butyl ether	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
di-Isopropyl ether	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
tert-Butanol	ND		88.7		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,4-Dioxane	ND		88.7		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
trans-1,4-Dichloro-2-butene	ND		22.2		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Ethanol	ND		887		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,3-Dichloropropene, Total	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Xylenes, Total	ND		13.3		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:33*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:33*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:33*	*1*

Surrogate Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-17450-1	ATC-3 (0-5)	97	97	99	97
620-17450-2	ATC-3 (5-10)	97	98	100	100
620-17450-3	ATC-2 (0-5)	97	97	100	100
620-17450-4	ATC-2 (5-10)	99	99	113	105
620-17450-5	ATC-1 (0-5)	97	99	101	100
620-17450-6	ATC-1 (5-10)	97	99	101	101
620-17450-9	ATC-8 (0-5)	98	98	101	100
620-17450-10	ATC-8 (5-10)	99	99	103	100
620-17450-11	ATC-7 (0-5)	97	99	100	101
620-17450-12	ATC-7 (5-10)	96	99	103	102
620-17450-13	ATC-6 (0-5)	95	99	99	101
620-17450-14	ATC-6 (5-10)	96	99	101	101
620-17450-15	ATC-4 (0-5)	97	100	108	103
620-17450-16	ATC-4 (5-10)	99	99	102	100
620-17450-17	ATC-5 (0-5)	96	98	101	101
620-17450-18	ATC-5 (5-10)	96	100	102	101
LCS 620-33086/1-A	Lab Control Sample	100	100	99	101
LCSD 620-33086/2-A	Lab Control Sample Dup	100	101	98	101
MB 620-33086/3-A	Method Blank	100	99	102	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
620-17450-7	Comp (0-5)	50	50	39	54	63	76
620-17450-8	Comp (5-10)	41	45	42	45	48	65
LCS 620-32927/2-A	Lab Control Sample	75	75	71	76	77	77
LCSD 620-32927/3-A	Lab Control Sample Dup	73	75	68	75	79	85
MB 620-32927/1-A	Method Blank	56	64	50	60	58	86

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Surrogate Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	TPHL	FBP
Lab Sample ID	Client Sample ID	(30-130)	(30-130)	(30-130)
620-17450-7	Comp (0-5)	43	76	51
620-17450-8	Comp (5-10)	46	65	41
MB 620-32927/1-A	Method Blank	55	86	57

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
FBP = 2-Fluorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(30-150)	(30-150)
620-17450-7	Comp (0-5)	73	88
620-17450-8	Comp (5-10)	79	66

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Method: 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1COD	OTPH
Lab Sample ID	Client Sample ID	(40-140)	(40-140)
620-17450-7	Comp (0-5)	100	72
620-17450-8	Comp (5-10)	84	73
LCS 620-32878/2-A	Lab Control Sample	84	79
LCSD 620-32878/3-A	Lab Control Sample Dup	69	64
MB 620-32878/1-A	Method Blank	58	55

Surrogate Legend

1COD = 1-Chlorooctadecane (Surr)
OTPH = o-Terphenyl (Surr)

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-33086/3-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33086

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Acetone	ND		50.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Acrylonitrile	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Benzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Bromobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Bromochloromethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Bromodichloromethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Bromoform	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Bromomethane	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
2-Butanone (MEK)	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
n-Butylbenzene	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
sec-Butylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
tert-Butylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Carbon disulfide	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Carbon tetrachloride	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Chlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Chloroethane	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Chloroform	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Chloromethane	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
2-Chlorotoluene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
4-Chlorotoluene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Dibromochloromethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2-Dibromoethane (EDB)	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Dibromomethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2-Dichlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,3-Dichlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,4-Dichlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Dichlorodifluoromethane (Freon 12)	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1-Dichloroethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2-Dichloroethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1-Dichloroethene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
cis-1,2-Dichloroethene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
trans-1,2-Dichloroethene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2-Dichloropropane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,3-Dichloropropane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
2,2-Dichloropropane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1-Dichloropropene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
cis-1,3-Dichloropropene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
trans-1,3-Dichloropropene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Ethylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Hexachlorobutadiene	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
2-Hexanone (MBK)	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Isopropylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
4-Isopropyltoluene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Methyl tert-butyl ether	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Methylene Chloride	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-33086/3-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33086

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
N-Propylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Styrene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1,1,2-Tetrachloroethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1,2,2-Tetrachloroethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Tetrachloroethene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Toluene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2,3-Trichlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2,4-Trichlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,3,5-Trichlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1,1-Trichloroethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1,2-Trichloroethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Trichloroethene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Trichlorofluoromethane (Freon 11)	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2,3-Trichloropropane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2,4-Trimethylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,3,5-Trimethylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Vinyl chloride	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
m,p-Xylene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
o-Xylene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Tetrahydrofuran	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Ethyl ether	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Tert-amyl methyl ether	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Ethyl tert-butyl ether	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
di-Isopropyl ether	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
tert-Butanol	ND		100		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,4-Dioxane	ND		100		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
trans-1,4-Dichloro-2-butene	ND		25.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Ethanol	ND		1000		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,3-Dichloropropene, Total	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Xylenes, Total	ND		15.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 10:56*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 10:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*03/26/24 07:37*	*03/26/24 10:56*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 10:56*	*1*

Lab Sample ID: LCS 620-33086/1-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33086

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,2-Trichlorotrifluoroethane (Freon 113)			20.0	18.80		ug/Kg		94	70 - 130		
Acetone			20.0	19.91	J	ug/Kg		100	70 - 130		
Acrylonitrile			20.0	18.90		ug/Kg		94	70 - 130		
Benzene			20.0	19.74		ug/Kg		99	70 - 130		
Bromobenzene			20.0	19.44		ug/Kg		97	70 - 130		

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-33086/1-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33086

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	20.0	19.65		ug/Kg		98	70 - 130
Bromodichloromethane	20.0	19.48		ug/Kg		97	70 - 130
Bromoform	20.0	18.46		ug/Kg		92	70 - 130
Bromomethane	20.0	18.25		ug/Kg		91	70 - 130
2-Butanone (MEK)	20.0	20.90		ug/Kg		105	70 - 130
n-Butylbenzene	20.0	18.28		ug/Kg		91	70 - 130
sec-Butylbenzene	20.0	19.96		ug/Kg		100	70 - 130
tert-Butylbenzene	20.0	18.99		ug/Kg		95	70 - 130
Carbon disulfide	20.0	19.07		ug/Kg		95	70 - 130
Carbon tetrachloride	20.0	19.07		ug/Kg		95	70 - 130
Chlorobenzene	20.0	19.44		ug/Kg		97	70 - 130
Chloroethane	20.0	18.66		ug/Kg		93	70 - 130
Chloroform	20.0	19.45		ug/Kg		97	70 - 130
Chloromethane	20.0	19.80		ug/Kg		99	70 - 130
2-Chlorotoluene	20.0	19.62		ug/Kg		98	70 - 130
4-Chlorotoluene	20.0	19.41		ug/Kg		97	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	19.73		ug/Kg		99	70 - 130
Dibromochloromethane	20.0	19.12		ug/Kg		96	70 - 130
1,2-Dibromoethane (EDB)	20.0	19.94		ug/Kg		100	70 - 130
Dibromomethane	20.0	19.81		ug/Kg		99	70 - 130
1,2-Dichlorobenzene	20.0	18.21		ug/Kg		91	70 - 130
1,3-Dichlorobenzene	20.0	19.39		ug/Kg		97	70 - 130
1,4-Dichlorobenzene	20.0	18.93		ug/Kg		95	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	18.58		ug/Kg		93	70 - 130
1,1-Dichloroethane	20.0	19.53		ug/Kg		98	70 - 130
1,2-Dichloroethane	20.0	19.50		ug/Kg		98	70 - 130
1,1-Dichloroethene	20.0	19.27		ug/Kg		96	70 - 130
cis-1,2-Dichloroethene	20.0	19.92		ug/Kg		100	70 - 130
trans-1,2-Dichloroethene	20.0	19.75		ug/Kg		99	70 - 130
1,2-Dichloropropane	20.0	19.63		ug/Kg		98	70 - 130
1,3-Dichloropropane	20.0	20.01		ug/Kg		100	70 - 130
2,2-Dichloropropane	20.0	19.68		ug/Kg		98	70 - 130
1,1-Dichloropropene	20.0	20.07		ug/Kg		100	70 - 130
cis-1,3-Dichloropropene	20.0	19.44		ug/Kg		97	70 - 130
trans-1,3-Dichloropropene	20.0	19.97		ug/Kg		100	70 - 130
Ethylbenzene	20.0	19.70		ug/Kg		98	70 - 130
Hexachlorobutadiene	20.0	18.83		ug/Kg		94	70 - 130
2-Hexanone (MBK)	20.0	18.68		ug/Kg		93	70 - 130
Isopropylbenzene	20.0	19.06		ug/Kg		95	70 - 130
4-Isopropyltoluene	20.0	19.14		ug/Kg		96	70 - 130
Methyl tert-butyl ether	20.0	20.44		ug/Kg		102	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	20.57		ug/Kg		103	70 - 130
Methylene Chloride	20.0	19.10		ug/Kg		95	70 - 130
Naphthalene	20.0	20.69		ug/Kg		103	70 - 130
N-Propylbenzene	20.0	19.71		ug/Kg		99	70 - 130
Styrene	20.0	19.27		ug/Kg		96	70 - 130
1,1,1,2-Tetrachloroethane	20.0	19.24		ug/Kg		96	70 - 130
1,1,2,2-Tetrachloroethane	20.0	19.05		ug/Kg		95	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-33086/1-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33086

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tetrachloroethene			20.0	19.72		ug/Kg		99	70 - 130		
Toluene			20.0	19.65		ug/Kg		98	70 - 130		
1,2,3-Trichlorobenzene			20.0	20.91		ug/Kg		105	70 - 130		
1,2,4-Trichlorobenzene			20.0	19.81		ug/Kg		99	70 - 130		
1,3,5-Trichlorobenzene			20.0	18.74		ug/Kg		94	70 - 130		
1,1,1-Trichloroethane			20.0	19.38		ug/Kg		97	70 - 130		
1,1,2-Trichloroethane			20.0	19.62		ug/Kg		98	70 - 130		
Trichloroethene			20.0	19.07		ug/Kg		95	70 - 130		
Trichlorofluoromethane (Freon 11)			20.0	19.01		ug/Kg		95	70 - 130		
1,2,3-Trichloropropane			20.0	19.44		ug/Kg		97	70 - 130		
1,2,4-Trimethylbenzene			20.0	18.86		ug/Kg		94	70 - 130		
1,3,5-Trimethylbenzene			20.0	19.64		ug/Kg		98	70 - 130		
Vinyl chloride			20.0	18.81		ug/Kg		94	70 - 130		
m,p-Xylene			20.0	19.63		ug/Kg		98	70 - 130		
o-Xylene			20.0	19.32		ug/Kg		97	70 - 130		
Tetrahydrofuran			20.0	20.17		ug/Kg		101	70 - 130		
Ethyl ether			20.0	19.60		ug/Kg		98	70 - 130		
Tert-amyl methyl ether			20.0	19.75		ug/Kg		99	70 - 130		
Ethyl tert-butyl ether			20.0	20.42		ug/Kg		102	70 - 130		
di-Isopropyl ether			20.0	20.16		ug/Kg		101	70 - 130		
tert-Butanol			200	215.9		ug/Kg		108	70 - 130		
1,4-Dioxane			200	209.6		ug/Kg		105	70 - 130		
trans-1,4-Dichloro-2-butene			20.0	18.36	J	ug/Kg		92	70 - 130		
Ethanol			400	389.9	J	ug/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 620-33086/2-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33086

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			20.0	19.20		ug/Kg		96	70 - 130	2	30
Acetone			20.0	17.70	J	ug/Kg		88	70 - 130	12	30
Acrylonitrile			20.0	18.69		ug/Kg		93	70 - 130	1	30
Benzene			20.0	19.95		ug/Kg		100	70 - 130	1	30
Bromobenzene			20.0	19.59		ug/Kg		98	70 - 130	1	30
Bromochloromethane			20.0	20.27		ug/Kg		101	70 - 130	3	30
Bromodichloromethane			20.0	19.66		ug/Kg		98	70 - 130	1	30
Bromoform			20.0	18.18		ug/Kg		91	70 - 130	2	30
Bromomethane			20.0	17.81		ug/Kg		89	70 - 130	2	30
2-Butanone (MEK)			20.0	18.73		ug/Kg		94	70 - 130	11	30
n-Butylbenzene			20.0	18.30		ug/Kg		92	70 - 130	0	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-33086/2-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 33087
Prep Batch: 33086

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene	20.0	19.93		ug/Kg		100	70 - 130	0	30
tert-Butylbenzene	20.0	19.53		ug/Kg		98	70 - 130	3	30
Carbon disulfide	20.0	19.12		ug/Kg		96	70 - 130	0	30
Carbon tetrachloride	20.0	19.60		ug/Kg		98	70 - 130	3	30
Chlorobenzene	20.0	19.75		ug/Kg		99	70 - 130	2	30
Chloroethane	20.0	19.15		ug/Kg		96	70 - 130	3	30
Chloroform	20.0	19.76		ug/Kg		99	70 - 130	2	30
Chloromethane	20.0	19.69		ug/Kg		98	70 - 130	1	30
2-Chlorotoluene	20.0	19.79		ug/Kg		99	70 - 130	1	30
4-Chlorotoluene	20.0	19.50		ug/Kg		98	70 - 130	0	30
1,2-Dibromo-3-Chloropropane	20.0	19.65		ug/Kg		98	70 - 130	0	30
Dibromochloromethane	20.0	19.25		ug/Kg		96	70 - 130	1	30
1,2-Dibromoethane (EDB)	20.0	19.72		ug/Kg		99	70 - 130	1	30
Dibromomethane	20.0	19.48		ug/Kg		97	70 - 130	2	30
1,2-Dichlorobenzene	20.0	18.63		ug/Kg		93	70 - 130	2	30
1,3-Dichlorobenzene	20.0	19.50		ug/Kg		97	70 - 130	1	30
1,4-Dichlorobenzene	20.0	19.10		ug/Kg		95	70 - 130	1	30
Dichlorodifluoromethane (Freon 12)	20.0	18.81		ug/Kg		94	70 - 130	1	30
1,1-Dichloroethane	20.0	19.83		ug/Kg		99	70 - 130	2	30
1,2-Dichloroethane	20.0	19.57		ug/Kg		98	70 - 130	0	30
1,1-Dichloroethene	20.0	19.71		ug/Kg		99	70 - 130	2	30
cis-1,2-Dichloroethene	20.0	20.11		ug/Kg		101	70 - 130	1	30
trans-1,2-Dichloroethene	20.0	19.86		ug/Kg		99	70 - 130	1	30
1,2-Dichloropropane	20.0	19.78		ug/Kg		99	70 - 130	1	30
1,3-Dichloropropane	20.0	19.81		ug/Kg		99	70 - 130	1	30
2,2-Dichloropropane	20.0	19.78		ug/Kg		99	70 - 130	0	30
1,1-Dichloropropene	20.0	20.47		ug/Kg		102	70 - 130	2	30
cis-1,3-Dichloropropene	20.0	19.56		ug/Kg		98	70 - 130	1	30
trans-1,3-Dichloropropene	20.0	19.71		ug/Kg		99	70 - 130	1	30
Ethylbenzene	20.0	19.96		ug/Kg		100	70 - 130	1	30
Hexachlorobutadiene	20.0	19.93		ug/Kg		100	70 - 130	6	30
2-Hexanone (MBK)	20.0	17.22		ug/Kg		86	70 - 130	8	30
Isopropylbenzene	20.0	19.32		ug/Kg		97	70 - 130	1	30
4-Isopropyltoluene	20.0	19.59		ug/Kg		98	70 - 130	2	30
Methyl tert-butyl ether	20.0	20.32		ug/Kg		102	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)	20.0	19.12		ug/Kg		96	70 - 130	7	30
Methylene Chloride	20.0	19.41		ug/Kg		97	70 - 130	2	30
Naphthalene	20.0	20.94		ug/Kg		105	70 - 130	1	30
N-Propylbenzene	20.0	19.79		ug/Kg		99	70 - 130	0	30
Styrene	20.0	19.22		ug/Kg		96	70 - 130	0	30
1,1,1,2-Tetrachloroethane	20.0	19.46		ug/Kg		97	70 - 130	1	30
1,1,2,2-Tetrachloroethane	20.0	18.74		ug/Kg		94	70 - 130	2	30
Tetrachloroethene	20.0	20.01		ug/Kg		100	70 - 130	1	30
Toluene	20.0	20.00		ug/Kg		100	70 - 130	2	30
1,2,3-Trichlorobenzene	20.0	21.12		ug/Kg		106	70 - 130	1	30
1,2,4-Trichlorobenzene	20.0	20.08		ug/Kg		100	70 - 130	1	30
1,3,5-Trichlorobenzene	20.0	19.10		ug/Kg		96	70 - 130	2	30
1,1,1-Trichloroethane	20.0	19.64		ug/Kg		98	70 - 130	1	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-33086/2-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33086

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane			20.0	19.85		ug/Kg		99	70 - 130	1	30
Trichloroethene			20.0	19.38		ug/Kg		97	70 - 130	2	30
Trichlorofluoromethane (Freon 11)			20.0	19.06		ug/Kg		95	70 - 130	0	30
1,2,3-Trichloropropane			20.0	19.00		ug/Kg		95	70 - 130	2	30
1,2,4-Trimethylbenzene			20.0	19.02		ug/Kg		95	70 - 130	1	30
1,3,5-Trimethylbenzene			20.0	19.95		ug/Kg		100	70 - 130	2	30
Vinyl chloride			20.0	18.85		ug/Kg		94	70 - 130	0	30
m,p-Xylene			20.0	19.88		ug/Kg		99	70 - 130	1	30
o-Xylene			20.0	19.51		ug/Kg		98	70 - 130	1	30
Tetrahydrofuran			20.0	19.04		ug/Kg		95	70 - 130	6	30
Ethyl ether			20.0	19.98		ug/Kg		100	70 - 130	2	30
Tert-amyl methyl ether			20.0	19.77		ug/Kg		99	70 - 130	0	30
Ethyl tert-butyl ether			20.0	20.59		ug/Kg		103	70 - 130	1	30
di-Isopropyl ether			20.0	20.36		ug/Kg		102	70 - 130	1	30
tert-Butanol			200	202.9		ug/Kg		101	70 - 130	6	30
1,4-Dioxane			200	191.8		ug/Kg		96	70 - 130	9	30
trans-1,4-Dichloro-2-butene			20.0	17.90	J	ug/Kg		90	70 - 130	2	30
Ethanol			400	313.8	J	ug/Kg		78	70 - 130	22	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-32927/1-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32927

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
1,2,4-Trichlorobenzene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
1,2-Dichlorobenzene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
1,3-Dichlorobenzene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
1,4-Dichlorobenzene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,4,5-Trichlorophenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,4,6-Trichlorophenol	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,4-Dichlorophenol	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,4-Dimethylphenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,4-Dinitrophenol	ND		660		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,4-Dinitrotoluene	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,6-Dinitrotoluene	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2-Chloronaphthalene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2-Chlorophenol	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2-Methylphenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2-Nitroaniline	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-32927/1-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32927

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
3 & 4 Methylphenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
3,3'-Dichlorobenzidine	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
3-Nitroaniline	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4,6-Dinitro-2-methylphenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4-Bromophenyl phenyl ether	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4-Chloro-3-methylphenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4-Chloroaniline	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4-Chlorophenyl phenyl ether	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4-Nitroaniline	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4-Nitrophenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Acetophenone	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Aniline	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Azobenzene/Diphenyldiazene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzidine	ND		660		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzoic acid	ND		667		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzyl alcohol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Bis(2-chloroethoxy)methane	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Bis(2-chloroethyl)ether	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
bis (2-chloroisopropyl) ether	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Bis(2-ethylhexyl) phthalate	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Butyl benzyl phthalate	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Carbazole	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Dibenzofuran	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Diethyl phthalate	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Dimethyl phthalate	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Di-n-butyl phthalate	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Di-n-octyl phthalate	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Hexachlorobenzene	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Hexachlorobutadiene	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Hexachlorocyclopentadiene	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Hexachloroethane	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Isophorone	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Nitrobenzene	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
N-Nitrosodimethylamine	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
N-Nitrosodi-n-propylamine	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
N-Nitrosodiphenylamine	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Pentachloronitrobenzene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Pentachlorophenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Phenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Pyridine	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*56*		*30 - 130*	*03/21/24 08:36*	*03/21/24 13:46*	*1*
2-Fluorophenol (Surr)	*64*		*15 - 110*	*03/21/24 08:36*	*03/21/24 13:46*	*1*
Nitrobenzene-d5 (Surr)	*50*		*30 - 130*	*03/21/24 08:36*	*03/21/24 13:46*	*1*
Phenol-d5 (Surr)	*60*		*15 - 110*	*03/21/24 08:36*	*03/21/24 13:46*	*1*
2,4,6-Tribromophenol (Surr)	*58*		*15 - 110*	*03/21/24 08:36*	*03/21/24 13:46*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-32927/1-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32927

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	86		30 - 130	03/21/24 08:36	03/21/24 13:46	1

Lab Sample ID: LCS 620-32927/2-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32927

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	1670	1173		ug/Kg		70	40 - 140
1,2,4-Trichlorobenzene	1670	1139		ug/Kg		68	40 - 140
1,2-Dichlorobenzene	1670	1122		ug/Kg		67	40 - 140
1,3-Dichlorobenzene	1670	1171		ug/Kg		70	40 - 140
1,4-Dichlorobenzene	1670	1147		ug/Kg		69	40 - 140
2,4,5-Trichlorophenol	1670	1191		ug/Kg		71	30 - 130
2,4,6-Trichlorophenol	1670	1318		ug/Kg		79	30 - 130
2,4-Dichlorophenol	1670	1163		ug/Kg		70	30 - 130
2,4-Dimethylphenol	1670	1113		ug/Kg		67	30 - 130
2,4-Dinitrophenol	1670	968.3		ug/Kg		58	30 - 130
2,4-Dinitrotoluene	1670	1430		ug/Kg		86	40 - 140
2,6-Dinitrotoluene	1670	1332		ug/Kg		80	40 - 140
2-Chloronaphthalene	1670	1284		ug/Kg		77	40 - 140
2-Chlorophenol	1670	1209		ug/Kg		73	30 - 130
2-Methylphenol	1670	1235		ug/Kg		74	30 - 130
2-Nitroaniline	1670	987.5		ug/Kg		59	40 - 140
2-Nitrophenol	1670	1130		ug/Kg		68	30 - 130
3 & 4 Methylphenol	1670	1243		ug/Kg		75	30 - 130
3,3'-Dichlorobenzidine	1670	1636		ug/Kg		98	40 - 140
3-Nitroaniline	1670	733.0		ug/Kg		44	40 - 140
4,6-Dinitro-2-methylphenol	1670	1157		ug/Kg		69	30 - 130
4-Bromophenyl phenyl ether	1670	1330		ug/Kg		80	40 - 140
4-Chloro-3-methylphenol	1670	1303		ug/Kg		78	30 - 130
4-Chloroaniline	1670	520.8	*-	ug/Kg		31	40 - 140
4-Chlorophenyl phenyl ether	1670	1380		ug/Kg		83	40 - 140
4-Nitroaniline	1670	929.3		ug/Kg		56	40 - 140
4-Nitrophenol	1670	1315		ug/Kg		79	30 - 130
Acetophenone	1670	1179		ug/Kg		71	40 - 140
Aniline	1670	606.8	*-	ug/Kg		36	40 - 140
Azobenzene/Diphenyldiazene	1670	885.0		ug/Kg		53	40 - 140
Benzidine	1670	399.0	J *-	ug/Kg		24	40 - 140
Benzoic acid	1670	443.3	*-	ug/Kg		27	30 - 130
Benzyl alcohol	1670	1074		ug/Kg		64	40 - 140
Bis(2-chloroethoxy)methane	1670	1054		ug/Kg		63	40 - 140
Bis(2-chloroethyl)ether	1670	1117		ug/Kg		67	40 - 140
bis (2-chloroisopropyl) ether	1670	998.5		ug/Kg		60	40 - 140
Bis(2-ethylhexyl) phthalate	1670	1399		ug/Kg		84	40 - 140
Butyl benzyl phthalate	1670	1403		ug/Kg		84	40 - 140
Carbazole	1670	951.1		ug/Kg		57	40 - 140
Dibenzofuran	1670	1326		ug/Kg		80	40 - 140
Diethyl phthalate	1670	1365		ug/Kg		82	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-32927/2-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32927

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Dimethyl phthalate			1670	1367		ug/Kg		82	40 - 140		
Di-n-butyl phthalate			1670	1373		ug/Kg		82	40 - 140		
Di-n-octyl phthalate			1670	1433		ug/Kg		86	40 - 140		
Hexachlorobenzene			1670	1358		ug/Kg		81	40 - 140		
Hexachlorobutadiene			1670	1008		ug/Kg		61	40 - 140		
Hexachlorocyclopentadiene			1670	974.9		ug/Kg		58	40 - 140		
Hexachloroethane			1670	1115		ug/Kg		67	40 - 140		
Isophorone			1670	1043		ug/Kg		63	40 - 140		
Nitrobenzene			1670	1166		ug/Kg		70	40 - 140		
N-Nitrosodimethylamine			1670	824.2		ug/Kg		49	40 - 140		
N-Nitrosodi-n-propylamine			1670	1231		ug/Kg		74	40 - 140		
N-Nitrosodiphenylamine			1670	1452		ug/Kg		87	40 - 140		
Pentachloronitrobenzene			1670	1479		ug/Kg		89	40 - 140		
Pentachlorophenol			1670	1067		ug/Kg		64	30 - 130		
Phenol			1670	1197		ug/Kg		72	40 - 140		
Pyridine			1670	582.1	*-	ug/Kg		35	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*75*		*30 - 130*
2-Fluorophenol (Surr)	*75*		*15 - 110*
Nitrobenzene-d5 (Surr)	*71*		*30 - 130*
Phenol-d5 (Surr)	*76*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*77*		*15 - 110*
Terphenyl-d14 (Surr)	*77*		*30 - 130*

Lab Sample ID: LCSD 620-32927/3-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32927

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			1670	1135		ug/Kg		68	40 - 140	3	30
1,2,4-Trichlorobenzene			1670	1061		ug/Kg		64	40 - 140	7	30
1,2-Dichlorobenzene			1670	1074		ug/Kg		64	40 - 140	4	30
1,3-Dichlorobenzene			1670	1105		ug/Kg		66	40 - 140	6	30
1,4-Dichlorobenzene			1670	1110		ug/Kg		67	40 - 140	3	30
2,4,5-Trichlorophenol			1670	1186		ug/Kg		71	30 - 130	0	30
2,4,6-Trichlorophenol			1670	1295		ug/Kg		78	30 - 130	2	30
2,4-Dichlorophenol			1670	1129		ug/Kg		68	30 - 130	3	30
2,4-Dimethylphenol			1670	1091		ug/Kg		65	30 - 130	2	30
2,4-Dinitrophenol			1670	994.5		ug/Kg		60	30 - 130	3	30
2,4-Dinitrotoluene			1670	1436		ug/Kg		86	40 - 140	0	30
2,6-Dinitrotoluene			1670	1348		ug/Kg		81	40 - 140	1	30
2-Chloronaphthalene			1670	1240		ug/Kg		74	40 - 140	3	30
2-Chlorophenol			1670	1173		ug/Kg		70	30 - 130	3	30
2-Methylphenol			1670	1206		ug/Kg		72	30 - 130	2	30
2-Nitroaniline			1670	994.4		ug/Kg		60	40 - 140	1	30
2-Nitrophenol			1670	1066		ug/Kg		64	30 - 130	6	30
3 & 4 Methylphenol			1670	1217		ug/Kg		73	30 - 130	2	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-32927/3-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32927

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3,3'-Dichlorobenzidine			1670	1610		ug/Kg		97	40 - 140	2	30
3-Nitroaniline			1670	716.5		ug/Kg		43	40 - 140	2	30
4,6-Dinitro-2-methylphenol			1670	1193		ug/Kg		72	30 - 130	3	30
4-Bromophenyl phenyl ether			1670	1332		ug/Kg		80	40 - 140	0	30
4-Chloro-3-methylphenol			1670	1264		ug/Kg		76	30 - 130	3	30
4-Chloroaniline			1670	433.8	*-	ug/Kg		26	40 - 140	18	30
4-Chlorophenyl phenyl ether			1670	1388		ug/Kg		83	40 - 140	1	30
4-Nitroaniline			1670	969.4		ug/Kg		58	40 - 140	4	30
4-Nitrophenol			1670	1261		ug/Kg		76	30 - 130	4	30
Acetophenone			1670	1136		ug/Kg		68	40 - 140	4	30
Aniline			1670	545.3	*-	ug/Kg		33	40 - 140	11	30
Azobenzene/Diphenyldiazene			1670	871.0		ug/Kg		52	40 - 140	2	30
Benzidine			1670	391.4	J *-	ug/Kg		23	40 - 140	2	30
Benzoic acid			1670	392.4	*-	ug/Kg		24	30 - 130	12	30
Benzyl alcohol			1670	1052		ug/Kg		63	40 - 140	2	30
Bis(2-chloroethoxy)methane			1670	1011		ug/Kg		61	40 - 140	4	30
Bis(2-chloroethyl)ether			1670	1081		ug/Kg		65	40 - 140	3	30
bis (2-chloroisopropyl) ether			1670	972.2		ug/Kg		58	40 - 140	3	30
Bis(2-ethylhexyl) phthalate			1670	1465		ug/Kg		88	40 - 140	5	30
Butyl benzyl phthalate			1670	1454		ug/Kg		87	40 - 140	4	30
Carbazole			1670	987.3		ug/Kg		59	40 - 140	4	30
Dibenzofuran			1670	1342		ug/Kg		81	40 - 140	1	30
Diethyl phthalate			1670	1398		ug/Kg		84	40 - 140	2	30
Dimethyl phthalate			1670	1360		ug/Kg		82	40 - 140	0	30
Di-n-butyl phthalate			1670	1404		ug/Kg		84	40 - 140	2	30
Di-n-octyl phthalate			1670	1511		ug/Kg		91	40 - 140	5	30
Hexachlorobenzene			1670	1372		ug/Kg		82	40 - 140	1	30
Hexachlorobutadiene			1670	945.1		ug/Kg		57	40 - 140	6	30
Hexachlorocyclopentadiene			1670	956.8		ug/Kg		57	40 - 140	2	30
Hexachloroethane			1670	1065		ug/Kg		64	40 - 140	5	30
Isophorone			1670	990.8		ug/Kg		59	40 - 140	5	30
Nitrobenzene			1670	1108		ug/Kg		66	40 - 140	5	30
N-Nitrosodimethylamine			1670	813.7		ug/Kg		49	40 - 140	1	30
N-Nitrosodi-n-propylamine			1670	1218		ug/Kg		73	40 - 140	1	30
N-Nitrosodiphenylamine			1670	1454		ug/Kg		87	40 - 140	0	30
Pentachloronitrobenzene			1670	1494		ug/Kg		90	40 - 140	1	30
Pentachlorophenol			1670	1098		ug/Kg		66	30 - 130	3	30
Phenol			1670	1189		ug/Kg		71	40 - 140	1	30
Pyridine			1670	550.5	*-	ug/Kg		33	40 - 140	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*73*		*30 - 130*
2-Fluorophenol (Surr)	*75*		*15 - 110*
Nitrobenzene-d5 (Surr)	*68*		*30 - 130*
Phenol-d5 (Surr)	*75*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*
Terphenyl-d14 (Surr)	*85*		*30 - 130*

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Lab Sample ID: MB 620-32927/1-A
Matrix: Solid
Analysis Batch: 32952

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32927

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Acenaphthylene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
1-Methylnaphthalene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Anthracene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzo[a]anthracene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzo[a]pyrene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzo[b]fluoranthene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzo[g,h,i]perylene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzo[k]fluoranthene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Chrysene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Dibenz(a,h)anthracene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Fluoranthene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Fluorene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Indeno[1,2,3-cd]pyrene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2-Methylnaphthalene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Naphthalene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Phenanthrene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Pyrene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Bis(2-ethylhexyl) phthalate	ND		33.3		ug/Kg		03/21/24 08:36	03/21/24 13:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*55*		*30 - 130*	*03/21/24 08:36*	*03/21/24 13:46*	*1*
Terphenyl-d14 (Surr)	*86*		*30 - 130*	*03/21/24 08:36*	*03/21/24 13:46*	*1*
2-Fluorobiphenyl (Surr)	*57*		*30 - 130*	*03/21/24 08:36*	*03/21/24 13:46*	*1*

Method: 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Lab Sample ID: MB 620-32878/1-A
Matrix: Solid
Analysis Batch: 32965

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32878

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TEPH (C9-C36)	ND		13.3		mg/Kg		03/19/24 17:07	03/21/24 13:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*58*		*40 - 140*	*03/19/24 17:07*	*03/21/24 13:42*	*1*
o-Terphenyl (Surr)	*55*		*40 - 140*	*03/19/24 17:07*	*03/21/24 13:42*	*1*

Lab Sample ID: LCS 620-32878/2-A
Matrix: Solid
Analysis Batch: 32965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32878

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TEPH (C9-C36)			360	274.4		mg/Kg		76	30 - 100		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctadecane (Surr)	*84*		*40 - 140*
o-Terphenyl (Surr)	*79*		*40 - 140*

Method: 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Lab Sample ID: LCSD 620-32878/3-A
Matrix: Solid
Analysis Batch: 32965

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32878

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TEPH (C9-C36)			360	215.3		mg/Kg		60	30 - 100	24	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctadecane (Surr)	*69*		*40 - 140*
o-Terphenyl (Surr)	*64*		*40 - 140*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 620-33090/1-A
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33090

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.50		mg/Kg		03/26/24 08:24	03/27/24 14:42	1
Barium	ND		1.00		mg/Kg		03/26/24 08:24	03/27/24 14:42	1
Cadmium	ND		0.500		mg/Kg		03/26/24 08:24	03/27/24 14:42	1
Chromium	ND		1.00		mg/Kg		03/26/24 08:24	03/27/24 14:42	1
Lead	ND		1.50		mg/Kg		03/26/24 08:24	03/27/24 14:42	1
Selenium	ND		1.50		mg/Kg		03/26/24 08:24	03/27/24 14:42	1
Silver	ND		1.50		mg/Kg		03/26/24 08:24	03/27/24 14:42	1

Lab Sample ID: LCSSRM 620-33090/2-A
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33090

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			223	189.0		mg/Kg		84.8	70.4 - 102.2		
Barium			445	462.6		mg/Kg		104.0	78.0 - 110.8		
Cadmium			226	235.6		mg/Kg		104.3	73.9 - 104.9		
Chromium			230	206.4		mg/Kg		89.7	73.5 - 107.0		
Lead			275	266.9		mg/Kg		97.1	74.2 - 108.0		
Selenium			137	127.0		mg/Kg		92.7	70.9 - 108.8		
Silver			75.3	58.60		mg/Kg		77.8	72.0 - 110.1		

Lab Sample ID: 620-17450-7 MS
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (0-5)
Prep Type: Total/NA
Prep Batch: 33090

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic	ND	F1	100	75.72	F1	mg/Kg	☼	73	75 - 125		
Cadmium	ND		100	79.83		mg/Kg	☼	80	75 - 125		
Chromium	13.6	F1	100	86.58	F1	mg/Kg	☼	73	75 - 125		
Lead	21.0		100	98.74		mg/Kg	☼	78	75 - 125		
Selenium	ND	F1	100	72.55	F1	mg/Kg	☼	73	75 - 125		

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-17450-7 MS
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (0-5)
Prep Type: Total/NA
Prep Batch: 33090

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	ND	F1	100	46.65	F1	mg/Kg	☼	47	75 - 125

Lab Sample ID: 620-17450-7 MSD
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (0-5)
Prep Type: Total/NA
Prep Batch: 33090

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND	F1	92.8	85.32		mg/Kg	☼	89	75 - 125	12	20
Barium	45.9		92.8	147.8		mg/Kg	☼	110	75 - 125	6	20
Cadmium	ND		92.8	88.13		mg/Kg	☼	95	75 - 125	10	20
Chromium	13.6	F1	92.8	95.99		mg/Kg	☼	89	75 - 125	10	20
Lead	21.0		92.8	101.7		mg/Kg	☼	87	75 - 125	3	20
Selenium	ND	F1	92.8	80.90		mg/Kg	☼	87	75 - 125	11	20
Silver	ND	F1	92.9	44.43	F1	mg/Kg	☼	48	75 - 125	5	20

Lab Sample ID: 620-17450-7 DU
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (0-5)
Prep Type: Total/NA
Prep Batch: 33090

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	ND	F1	ND		mg/Kg	☼	NC	20
Cadmium	ND		ND		mg/Kg	☼	NC	20
Chromium	13.6	F1	12.73		mg/Kg	☼	7	20
Lead	21.0		25.81		mg/Kg	☼	20	20
Selenium	ND	F1	ND		mg/Kg	☼	NC	20
Silver	ND	F1	ND		mg/Kg	☼	NC	20

Lab Sample ID: MB 620-33121/1-A
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33121

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0150	mg/L		03/26/24 15:40	03/27/24 13:11	1

Lab Sample ID: LCS 620-33121/2-A
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33121

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	2.00	1.976		mg/L		99	80 - 120

Lab Sample ID: LB 620-32864/1-B
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 33121

Analyte	LB Result	LB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0150	mg/L		03/26/24 15:40	03/27/24 13:59	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-17450-8 MS
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (5-10)
Prep Type: TCLP
Prep Batch: 33121

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	ND		2.00	1.724		mg/L		86	75 - 125

Lab Sample ID: 620-17450-8 MSD
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (5-10)
Prep Type: TCLP
Prep Batch: 33121

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		2.00	1.767		mg/L		88	75 - 125	2	20

Lab Sample ID: 620-17450-8 DU
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (5-10)
Prep Type: TCLP
Prep Batch: 33121

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	ND		ND		mg/L		NC	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 620-32865/1-A
Matrix: Solid
Analysis Batch: 32883

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32865

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0500		mg/Kg		03/19/24 11:28	03/19/24 15:14	1

Lab Sample ID: LCSSRM 620-32865/2-A ^20
Matrix: Solid
Analysis Batch: 32883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32865

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury			25.5	22.86		mg/Kg		89.6	71.4 - 125. 1

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 410-485688/1
Matrix: Solid
Analysis Batch: 485688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Flashpoint			81.0	80.00		Degrees F		99	96.9 - 103. 1

Lab Sample ID: LCSD 410-485688/2
Matrix: Solid
Analysis Batch: 485688

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Flashpoint			81.0	79.00		Degrees F		98	96.9 - 103. 1	1	4

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 410-486607/1-A
Matrix: Solid
Analysis Batch: 486903

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 486607

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		60.0		mg/Kg		03/25/24 08:25	03/25/24 16:36	1

Lab Sample ID: LCS 410-486607/2-A
Matrix: Solid
Analysis Batch: 486903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486607

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Reactive			1000	ND		mg/Kg		3	0 - 5.14		

Lab Sample ID: LCSD 410-486607/3-A
Matrix: Solid
Analysis Batch: 486903

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 486607

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Reactive			1000	ND		mg/Kg		3	0 - 5.14	11	11

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 410-486607/1-A
Matrix: Solid
Analysis Batch: 486731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 486607

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		160		mg/Kg		03/25/24 08:25	03/25/24 12:45	1

Lab Sample ID: LCS 410-486607/26-A
Matrix: Solid
Analysis Batch: 486731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486607

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide, Reactive			538	394.3		mg/Kg		73	62 - 104		

Lab Sample ID: LCSD 410-486607/27-A
Matrix: Solid
Analysis Batch: 486731

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 486607

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide, Reactive			538	404.2		mg/Kg		75	62 - 104	2	21

Method: 9045D - pH

Lab Sample ID: LCDSRM 620-33213/6
Matrix: Solid
Analysis Batch: 33213

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
pH			6.00	6.1		SU		100.8	97.5 - 102.5	1	5

Method: 9045D - pH (Continued)

Lab Sample ID: LCSSRM 620-33213/5
Matrix: Solid
Analysis Batch: 33213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
pH			6.00	6.0		SU		100.2	97.5 - 102.5		

Lab Sample ID: MB 620-33195/1-A
Matrix: Solid
Analysis Batch: 33213

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6				SU			03/28/24 11:32	1
Temperature	23.4				Degrees C			03/28/24 11:32	1

Lab Sample ID: 620-17450-7 DU
Matrix: Solid
Analysis Batch: 33213

Client Sample ID: Comp (0-5)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	8.4			8.6		SU				2	5
Temperature	23.4			23.4		Degrees C				0	5

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 410-485914/4
Matrix: Solid
Analysis Batch: 485914

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		300		mg/Kg			03/21/24 12:15	1

Lab Sample ID: LCS 410-485914/3
Matrix: Solid
Analysis Batch: 485914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon			3920	4950		mg/Kg		126	36 - 163		

Lab Sample ID: 620-17450-7 MS
Matrix: Solid
Analysis Batch: 485914

Client Sample ID: Comp (0-5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon	4780	F1	177000	24340	F1	mg/Kg		11	36 - 163		

Lab Sample ID: 620-17450-7 MSD
Matrix: Solid
Analysis Batch: 485914

Client Sample ID: Comp (0-5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	4780	F1	17500	23530		mg/Kg		107	36 - 163	3	20

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: LCDSRM 620-33209/3
Matrix: Solid
Analysis Batch: 33209

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Specific Conductance			1410	1405		uS/cm		99.4	95.0 - 105.0	0	20

Lab Sample ID: LCSSRM 620-33209/2
Matrix: Solid
Analysis Batch: 33209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Specific Conductance			1410	1402		uS/cm		99.2	95.0 - 105.0		

Lab Sample ID: MB 620-33195/1-A
Matrix: Solid
Analysis Batch: 33209

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		10.0		uS/cm			03/28/24 11:04	1

Lab Sample ID: 620-17450-7 DU
Matrix: Solid
Analysis Batch: 33209

Client Sample ID: Comp (0-5)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Specific Conductance	1200			1171		uS/cm				2	5

GC/MS VOA

Pre Prep Batch: 32834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-1	ATC-3 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-2	ATC-3 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-3	ATC-2 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-4	ATC-2 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-5	ATC-1 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-6	ATC-1 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-9	ATC-8 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-10	ATC-8 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-11	ATC-7 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-12	ATC-7 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-13	ATC-6 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-14	ATC-6 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-15	ATC-4 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-16	ATC-4 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-17	ATC-5 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-18	ATC-5 (5-10)	Total/NA	Solid	Frozen Preserve	

Prep Batch: 33086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-1	ATC-3 (0-5)	Total/NA	Solid	5035	32834
620-17450-2	ATC-3 (5-10)	Total/NA	Solid	5035	32834
620-17450-3	ATC-2 (0-5)	Total/NA	Solid	5035	32834
620-17450-4	ATC-2 (5-10)	Total/NA	Solid	5035	32834
620-17450-5	ATC-1 (0-5)	Total/NA	Solid	5035	32834
620-17450-6	ATC-1 (5-10)	Total/NA	Solid	5035	32834
620-17450-9	ATC-8 (0-5)	Total/NA	Solid	5035	32834
620-17450-10	ATC-8 (5-10)	Total/NA	Solid	5035	32834
620-17450-11	ATC-7 (0-5)	Total/NA	Solid	5035	32834
620-17450-12	ATC-7 (5-10)	Total/NA	Solid	5035	32834
620-17450-13	ATC-6 (0-5)	Total/NA	Solid	5035	32834
620-17450-14	ATC-6 (5-10)	Total/NA	Solid	5035	32834
620-17450-15	ATC-4 (0-5)	Total/NA	Solid	5035	32834
620-17450-16	ATC-4 (5-10)	Total/NA	Solid	5035	32834
620-17450-17	ATC-5 (0-5)	Total/NA	Solid	5035	32834
620-17450-18	ATC-5 (5-10)	Total/NA	Solid	5035	32834
MB 620-33086/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-33086/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-33086/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

GC/MS VOA

Analysis Batch: 33087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-1	ATC-3 (0-5)	Total/NA	Solid	8260C	33086
620-17450-2	ATC-3 (5-10)	Total/NA	Solid	8260C	33086
620-17450-3	ATC-2 (0-5)	Total/NA	Solid	8260C	33086
620-17450-4	ATC-2 (5-10)	Total/NA	Solid	8260C	33086
620-17450-5	ATC-1 (0-5)	Total/NA	Solid	8260C	33086
620-17450-6	ATC-1 (5-10)	Total/NA	Solid	8260C	33086
620-17450-9	ATC-8 (0-5)	Total/NA	Solid	8260C	33086
620-17450-10	ATC-8 (5-10)	Total/NA	Solid	8260C	33086
620-17450-11	ATC-7 (0-5)	Total/NA	Solid	8260C	33086
620-17450-12	ATC-7 (5-10)	Total/NA	Solid	8260C	33086
620-17450-13	ATC-6 (0-5)	Total/NA	Solid	8260C	33086
620-17450-14	ATC-6 (5-10)	Total/NA	Solid	8260C	33086
620-17450-15	ATC-4 (0-5)	Total/NA	Solid	8260C	33086
620-17450-16	ATC-4 (5-10)	Total/NA	Solid	8260C	33086
620-17450-17	ATC-5 (0-5)	Total/NA	Solid	8260C	33086
620-17450-18	ATC-5 (5-10)	Total/NA	Solid	8260C	33086
MB 620-33086/3-A	Method Blank	Total/NA	Solid	8260C	33086
LCS 620-33086/1-A	Lab Control Sample	Total/NA	Solid	8260C	33086
LCSD 620-33086/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	33086

GC/MS Semi VOA

Prep Batch: 32927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	3546	
620-17450-8	Comp (5-10)	Total/NA	Solid	3546	
MB 620-32927/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-32927/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-32927/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 32951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	8270D	32927
620-17450-8	Comp (5-10)	Total/NA	Solid	8270D	32927
MB 620-32927/1-A	Method Blank	Total/NA	Solid	8270D	32927
LCS 620-32927/2-A	Lab Control Sample	Total/NA	Solid	8270D	32927
LCSD 620-32927/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	32927

Analysis Batch: 32952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	8270D_LL_PAH	32927
620-17450-8	Comp (5-10)	Total/NA	Solid	8270D_LL_PAH	32927
MB 620-32927/1-A	Method Blank	Total/NA	Solid	8270D_LL_PAH	32927

GC Semi VOA

Prep Batch: 32873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	3540C	
620-17450-8	Comp (5-10)	Total/NA	Solid	3540C	

GC Semi VOA

Prep Batch: 32878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	3546	
620-17450-8	Comp (5-10)	Total/NA	Solid	3546	
MB 620-32878/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-32878/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-32878/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 32965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	8100	32878
620-17450-8	Comp (5-10)	Total/NA	Solid	8100	32878
MB 620-32878/1-A	Method Blank	Total/NA	Solid	8100	32878
LCS 620-32878/2-A	Lab Control Sample	Total/NA	Solid	8100	32878
LCSD 620-32878/3-A	Lab Control Sample Dup	Total/NA	Solid	8100	32878

Analysis Batch: 32987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	8082	32873
620-17450-8	Comp (5-10)	Total/NA	Solid	8082	32873

Metals

Leach Batch: 32864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	TCLP	Solid	1311	
620-17450-8	Comp (5-10)	TCLP	Solid	1311	
LB 620-32864/1-B	Method Blank	TCLP	Solid	1311	
620-17450-8 MS	Comp (5-10)	TCLP	Solid	1311	
620-17450-8 MSD	Comp (5-10)	TCLP	Solid	1311	
620-17450-8 DU	Comp (5-10)	TCLP	Solid	1311	

Prep Batch: 32865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	7471B	
620-17450-8	Comp (5-10)	Total/NA	Solid	7471B	
MB 620-32865/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 620-32865/2-A ^20	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 32883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	7471A	32865
620-17450-8	Comp (5-10)	Total/NA	Solid	7471A	32865
MB 620-32865/1-A	Method Blank	Total/NA	Solid	7471A	32865
LCSSRM 620-32865/2-A ^20	Lab Control Sample	Total/NA	Solid	7471A	32865

Prep Batch: 33090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	3050B	
620-17450-8	Comp (5-10)	Total/NA	Solid	3050B	
MB 620-33090/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 620-33090/2-A	Lab Control Sample	Total/NA	Solid	3050B	
620-17450-7 MS	Comp (0-5)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 33090 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7 MSD	Comp (0-5)	Total/NA	Solid	3050B	
620-17450-7 DU	Comp (0-5)	Total/NA	Solid	3050B	

Prep Batch: 33121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	TCLP	Solid	3010A	32864
620-17450-8	Comp (5-10)	TCLP	Solid	3010A	32864
LB 620-32864/1-B	Method Blank	TCLP	Solid	3010A	32864
MB 620-33121/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 620-33121/2-A	Lab Control Sample	Total/NA	Solid	3010A	
620-17450-8 MS	Comp (5-10)	TCLP	Solid	3010A	32864
620-17450-8 MSD	Comp (5-10)	TCLP	Solid	3010A	32864
620-17450-8 DU	Comp (5-10)	TCLP	Solid	3010A	32864

Analysis Batch: 33178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	TCLP	Solid	6010D	33121
620-17450-7	Comp (0-5)	Total/NA	Solid	6010D	33090
620-17450-8	Comp (5-10)	TCLP	Solid	6010D	33121
620-17450-8	Comp (5-10)	Total/NA	Solid	6010D	33090
LB 620-32864/1-B	Method Blank	TCLP	Solid	6010D	33121
MB 620-33090/1-A	Method Blank	Total/NA	Solid	6010D	33090
MB 620-33121/1-A	Method Blank	Total/NA	Solid	6010D	33121
LCS 620-33121/2-A	Lab Control Sample	Total/NA	Solid	6010D	33121
LCSSRM 620-33090/2-A	Lab Control Sample	Total/NA	Solid	6010D	33090
620-17450-7 MS	Comp (0-5)	Total/NA	Solid	6010D	33090
620-17450-7 MSD	Comp (0-5)	Total/NA	Solid	6010D	33090
620-17450-8 MS	Comp (5-10)	TCLP	Solid	6010D	33121
620-17450-8 MSD	Comp (5-10)	TCLP	Solid	6010D	33121
620-17450-7 DU	Comp (0-5)	Total/NA	Solid	6010D	33090
620-17450-8 DU	Comp (5-10)	TCLP	Solid	6010D	33121

General Chemistry

Analysis Batch: 32837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-1	ATC-3 (0-5)	Total/NA	Solid	Moisture	
620-17450-2	ATC-3 (5-10)	Total/NA	Solid	Moisture	
620-17450-3	ATC-2 (0-5)	Total/NA	Solid	Moisture	
620-17450-4	ATC-2 (5-10)	Total/NA	Solid	Moisture	
620-17450-5	ATC-1 (0-5)	Total/NA	Solid	Moisture	
620-17450-6	ATC-1 (5-10)	Total/NA	Solid	Moisture	
620-17450-7	Comp (0-5)	Total/NA	Solid	Moisture	
620-17450-8	Comp (5-10)	Total/NA	Solid	Moisture	
620-17450-9	ATC-8 (0-5)	Total/NA	Solid	Moisture	
620-17450-10	ATC-8 (5-10)	Total/NA	Solid	Moisture	
620-17450-11	ATC-7 (0-5)	Total/NA	Solid	Moisture	
620-17450-12	ATC-7 (5-10)	Total/NA	Solid	Moisture	
620-17450-13	ATC-6 (0-5)	Total/NA	Solid	Moisture	
620-17450-14	ATC-6 (5-10)	Total/NA	Solid	Moisture	
MB 620-32837/1	Method Blank	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 32837 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-8 DU	Comp (5-10)	Total/NA	Solid	Moisture	

Analysis Batch: 32858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-15	ATC-4 (0-5)	Total/NA	Solid	Moisture	
620-17450-16	ATC-4 (5-10)	Total/NA	Solid	Moisture	
620-17450-17	ATC-5 (0-5)	Total/NA	Solid	Moisture	
620-17450-18	ATC-5 (5-10)	Total/NA	Solid	Moisture	
MB 620-32858/1	Method Blank	Total/NA	Solid	Moisture	
620-17450-15 DU	ATC-4 (0-5)	Total/NA	Solid	Moisture	

Leach Batch: 33195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Soluble	Solid	DI Leach	
620-17450-8	Comp (5-10)	Soluble	Solid	DI Leach	
MB 620-33195/1-A	Method Blank	Soluble	Solid	DI Leach	
620-17450-7 DU	Comp (0-5)	Soluble	Solid	DI Leach	

Analysis Batch: 33209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Soluble	Solid	SM 2510B	33195
620-17450-8	Comp (5-10)	Soluble	Solid	SM 2510B	33195
MB 620-33195/1-A	Method Blank	Soluble	Solid	SM 2510B	33195
LCDSRM 620-33209/3	Lab Control Sample Dup	Total/NA	Solid	SM 2510B	
LCSSRM 620-33209/2	Lab Control Sample	Total/NA	Solid	SM 2510B	
620-17450-7 DU	Comp (0-5)	Soluble	Solid	SM 2510B	33195

Analysis Batch: 33213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Soluble	Solid	9045D	33195
620-17450-8	Comp (5-10)	Soluble	Solid	9045D	33195
MB 620-33195/1-A	Method Blank	Soluble	Solid	9045D	33195
LCDSRM 620-33213/6	Lab Control Sample Dup	Total/NA	Solid	9045D	
LCSSRM 620-33213/5	Lab Control Sample	Total/NA	Solid	9045D	
620-17450-7 DU	Comp (0-5)	Soluble	Solid	9045D	33195

Analysis Batch: 485688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	1010A	
620-17450-8	Comp (5-10)	Total/NA	Solid	1010A	
LCS 410-485688/1	Lab Control Sample	Total/NA	Solid	1010A	
LCSD 410-485688/2	Lab Control Sample Dup	Total/NA	Solid	1010A	

Analysis Batch: 485914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	9060	
620-17450-8	Comp (5-10)	Total/NA	Solid	9060	
MB 410-485914/4	Method Blank	Total/NA	Solid	9060	
LCS 410-485914/3	Lab Control Sample	Total/NA	Solid	9060	
620-17450-7 MS	Comp (0-5)	Total/NA	Solid	9060	
620-17450-7 MSD	Comp (0-5)	Total/NA	Solid	9060	

QC Association Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

General Chemistry

Prep Batch: 486607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	7.3.4	
620-17450-8	Comp (5-10)	Total/NA	Solid	7.3.4	
MB 410-486607/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 410-486607/26-A	Lab Control Sample	Total/NA	Solid	7.3.4	
LCS 410-486607/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	
LCSD 410-486607/27-A	Lab Control Sample Dup	Total/NA	Solid	7.3.4	
LCSD 410-486607/3-A	Lab Control Sample Dup	Total/NA	Solid	7.3.4	

Analysis Batch: 486731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	9034	486607
620-17450-8	Comp (5-10)	Total/NA	Solid	9034	486607
MB 410-486607/1-A	Method Blank	Total/NA	Solid	9034	486607
LCS 410-486607/26-A	Lab Control Sample	Total/NA	Solid	9034	486607
LCSD 410-486607/27-A	Lab Control Sample Dup	Total/NA	Solid	9034	486607

Analysis Batch: 486903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	9012	486607
620-17450-8	Comp (5-10)	Total/NA	Solid	9012	486607
MB 410-486607/1-A	Method Blank	Total/NA	Solid	9012	486607
LCS 410-486607/2-A	Lab Control Sample	Total/NA	Solid	9012	486607
LCSD 410-486607/3-A	Lab Control Sample Dup	Total/NA	Solid	9012	486607

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-3 (0-5)
Lab Sample ID: 620-17450-1
Date Collected: 03/15/24 09:10
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-3 (0-5)
Lab Sample ID: 620-17450-1
Date Collected: 03/15/24 09:10
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/15/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 12:08

Client Sample ID: ATC-3 (5-10)
Lab Sample ID: 620-17450-2
Date Collected: 03/15/24 09:30
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-3 (5-10)
Lab Sample ID: 620-17450-2
Date Collected: 03/15/24 09:30
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/15/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 12:33

Client Sample ID: ATC-2 (0-5)
Lab Sample ID: 620-17450-3
Date Collected: 03/15/24 10:15
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-2 (0-5)
Lab Sample ID: 620-17450-3
Date Collected: 03/15/24 10:15
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/15/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 12:58

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-2 (5-10)
Lab Sample ID: 620-17450-4
Date Collected: 03/15/24 11:00
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-2 (5-10)
Lab Sample ID: 620-17450-4
Date Collected: 03/15/24 11:00
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/15/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 13:23

Client Sample ID: ATC-1 (0-5)
Lab Sample ID: 620-17450-5
Date Collected: 03/15/24 11:20
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-1 (0-5)
Lab Sample ID: 620-17450-5
Date Collected: 03/15/24 11:20
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/15/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 13:49

Client Sample ID: ATC-1 (5-10)
Lab Sample ID: 620-17450-6
Date Collected: 03/15/24 11:30
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-1 (5-10)
Lab Sample ID: 620-17450-6
Date Collected: 03/15/24 11:30
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/15/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 14:14

Client Sample ID: Comp (0-5)
Lab Sample ID: 620-17450-7

Date Collected: 03/15/24 12:00
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			32864	MEM	EET NE	03/19/24 10:35 - 03/20/24 09:30 [1]
TCLP	Prep	3010A			33121	JPC	EET NE	03/26/24 15:40
TCLP	Analysis	6010D		1	33178	JPC	EET NE	03/27/24 13:47
Total/NA	Analysis	1010A		1	485688	USAE	ELLE	03/21/24 10:01 - 03/21/24 10:01 [1]
Total/NA	Prep	7.3.4			486607	USE1	ELLE	03/25/24 08:25
Total/NA	Analysis	9012		1	486903	JCG7	ELLE	03/25/24 17:06
Total/NA	Prep	7.3.4			486607	USE1	ELLE	03/25/24 08:25
Total/NA	Analysis	9034		1	486731	USE1	ELLE	03/25/24 12:45
Soluble	Leach	DI Leach			33195	ODO	EET NE	03/28/24 10:08
Soluble	Analysis	9045D		1	33213	ODO	EET NE	03/28/24 11:32
Total/NA	Analysis	9060		1	485914	P684	ELLE	03/21/24 13:08
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42
Soluble	Leach	DI Leach			33195	ODO	EET NE	03/28/24 10:08
Soluble	Analysis	SM 2510B		1	33209	ODO	EET NE	03/28/24 11:04

Client Sample ID: Comp (0-5)
Lab Sample ID: 620-17450-7

Date Collected: 03/15/24 12:00
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			32927	JAC	EET NE	03/21/24 08:36
Total/NA	Analysis	8270D		1	32951	JS	EET NE	03/21/24 15:49
Total/NA	Prep	3546			32927	JAC	EET NE	03/21/24 08:36
Total/NA	Analysis	8270D_LL_PAH		1	32952	JS	EET NE	03/21/24 15:49
Total/NA	Prep	3540C			32873	JAC	EET NE	03/19/24 14:48
Total/NA	Analysis	8082		1	32987	BMH	EET NE	03/21/24 23:56
Total/NA	Prep	3546			32878	JAC	EET NE	03/19/24 17:07
Total/NA	Analysis	8100		1	32965	JS	EET NE	03/21/24 15:35
Total/NA	Prep	3050B			33090	PRB	EET NE	03/26/24 08:24
Total/NA	Analysis	6010D		2	33178	JPC	EET NE	03/27/24 14:54
Total/NA	Prep	7471B			32865	PRB	EET NE	03/19/24 11:28
Total/NA	Analysis	7471A		1	32883	PRB	EET NE	03/19/24 15:44

Client Sample ID: Comp (5-10)
Lab Sample ID: 620-17450-8

Date Collected: 03/15/24 12:15
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			32864	MEM	EET NE	03/19/24 10:35 - 03/20/24 09:30 [1]
TCLP	Prep	3010A			33121	JPC	EET NE	03/26/24 15:40
TCLP	Analysis	6010D		1	33178	JPC	EET NE	03/27/24 13:23
Total/NA	Analysis	1010A		1	485688	USAE	ELLE	03/21/24 10:01 - 03/21/24 10:01 [1]
Total/NA	Prep	7.3.4			486607	USE1	ELLE	03/25/24 08:25
Total/NA	Analysis	9012		1	486903	JCG7	ELLE	03/25/24 17:07

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: Comp (5-10)
Lab Sample ID: 620-17450-8
Date Collected: 03/15/24 12:15
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7.3.4			486607	USE1	ELLE	03/25/24 08:25
Total/NA	Analysis	9034		1	486731	USE1	ELLE	03/25/24 12:45
Soluble	Leach	DI Leach			33195	ODO	EET NE	03/28/24 10:08
Soluble	Analysis	9045D		1	33213	ODO	EET NE	03/28/24 11:32
Total/NA	Analysis	9060		1	485914	P684	ELLE	03/21/24 13:29
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42
Soluble	Leach	DI Leach			33195	ODO	EET NE	03/28/24 10:08
Soluble	Analysis	SM 2510B		1	33209	ODO	EET NE	03/28/24 11:04

Client Sample ID: Comp (5-10)
Lab Sample ID: 620-17450-8
Date Collected: 03/15/24 12:15
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			32927	JAC	EET NE	03/21/24 08:36
Total/NA	Analysis	8270D		1	32951	JS	EET NE	03/21/24 16:14
Total/NA	Prep	3546			32927	JAC	EET NE	03/21/24 08:36
Total/NA	Analysis	8270D_LL_PAH		1	32952	JS	EET NE	03/21/24 16:14
Total/NA	Prep	3540C			32873	JAC	EET NE	03/19/24 14:48
Total/NA	Analysis	8082		1	32987	BMH	EET NE	03/22/24 00:14
Total/NA	Prep	3546			32878	JAC	EET NE	03/19/24 17:07
Total/NA	Analysis	8100		1	32965	JS	EET NE	03/21/24 15:57
Total/NA	Prep	3050B			33090	PRB	EET NE	03/26/24 08:24
Total/NA	Analysis	6010D		2	33178	JPC	EET NE	03/27/24 15:18
Total/NA	Prep	7471B			32865	PRB	EET NE	03/19/24 11:28
Total/NA	Analysis	7471A		1	32883	PRB	EET NE	03/19/24 15:46

Client Sample ID: ATC-8 (0-5)
Lab Sample ID: 620-17450-9
Date Collected: 03/14/24 10:00
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-8 (0-5)
Lab Sample ID: 620-17450-9
Date Collected: 03/14/24 10:00
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 14:40

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-8 (5-10)
Lab Sample ID: 620-17450-10
Date Collected: 03/14/24 11:50
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-8 (5-10)
Lab Sample ID: 620-17450-10
Date Collected: 03/14/24 11:50
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 15:06

Client Sample ID: ATC-7 (0-5)
Lab Sample ID: 620-17450-11
Date Collected: 03/14/24 11:10
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-7 (0-5)
Lab Sample ID: 620-17450-11
Date Collected: 03/14/24 11:10
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 15:31

Client Sample ID: ATC-7 (5-10)
Lab Sample ID: 620-17450-12
Date Collected: 03/14/24 12:10
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-7 (5-10)
Lab Sample ID: 620-17450-12
Date Collected: 03/14/24 12:10
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 15:57

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-6 (0-5)
Lab Sample ID: 620-17450-13
Date Collected: 03/14/24 12:30
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-6 (0-5)
Lab Sample ID: 620-17450-13
Date Collected: 03/14/24 12:30
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 16:24

Client Sample ID: ATC-6 (5-10)
Lab Sample ID: 620-17450-14
Date Collected: 03/14/24 12:45
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-6 (5-10)
Lab Sample ID: 620-17450-14
Date Collected: 03/14/24 12:45
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 16:50

Client Sample ID: ATC-4 (0-5)
Lab Sample ID: 620-17450-15
Date Collected: 03/14/24 13:40
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32858	MEM	EET NE	03/19/24 09:21

Client Sample ID: ATC-4 (0-5)
Lab Sample ID: 620-17450-15
Date Collected: 03/14/24 13:40
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 17:15

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-4 (5-10)
Lab Sample ID: 620-17450-16
Date Collected: 03/14/24 13:55
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32858	MEM	EET NE	03/19/24 09:21

Client Sample ID: ATC-4 (5-10)
Lab Sample ID: 620-17450-16
Date Collected: 03/14/24 13:55
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 17:41

Client Sample ID: ATC-5 (0-5)
Lab Sample ID: 620-17450-17
Date Collected: 03/14/24 14:25
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32858	MEM	EET NE	03/19/24 09:21

Client Sample ID: ATC-5 (0-5)
Lab Sample ID: 620-17450-17
Date Collected: 03/14/24 14:25
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 18:07

Client Sample ID: ATC-5 (5-10)
Lab Sample ID: 620-17450-18
Date Collected: 03/14/24 12:10
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32858	MEM	EET NE	03/19/24 09:21

Client Sample ID: ATC-5 (5-10)
Lab Sample ID: 620-17450-18
Date Collected: 03/14/24 12:10
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 18:33

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Laboratory: Eurofins New England

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6010D	3010A	Solid	Lead
6010D	3050B	Solid	Arsenic
6010D	3050B	Solid	Barium
6010D	3050B	Solid	Cadmium
6010D	3050B	Solid	Chromium
6010D	3050B	Solid	Lead
6010D	3050B	Solid	Selenium
6010D	3050B	Solid	Silver
7471A	7471B	Solid	Mercury
8082	3540C	Solid	PCB-1016
8082	3540C	Solid	PCB-1221
8082	3540C	Solid	PCB-1232
8082	3540C	Solid	PCB-1242
8082	3540C	Solid	PCB-1248
8082	3540C	Solid	PCB-1254
8082	3540C	Solid	PCB-1260
8082	3540C	Solid	PCB-1262
8082	3540C	Solid	PCB-1268
8100	3546	Solid	TEPH (C9-C36)
8260C	5035	Solid	1,1,1,2-Tetrachloroethane
8260C	5035	Solid	1,1,1-Trichloroethane
8260C	5035	Solid	1,1,2,2-Tetrachloroethane
8260C	5035	Solid	1,1,2-Trichloroethane
8260C	5035	Solid	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C	5035	Solid	1,1-Dichloroethane
8260C	5035	Solid	1,1-Dichloroethene
8260C	5035	Solid	1,1-Dichloropropene
8260C	5035	Solid	1,2,3-Trichlorobenzene
8260C	5035	Solid	1,2,3-Trichloropropane
8260C	5035	Solid	1,2,4-Trichlorobenzene
8260C	5035	Solid	1,2,4-Trimethylbenzene
8260C	5035	Solid	1,2-Dibromo-3-Chloropropane
8260C	5035	Solid	1,2-Dibromoethane (EDB)
8260C	5035	Solid	1,2-Dichlorobenzene
8260C	5035	Solid	1,2-Dichloroethane
8260C	5035	Solid	1,2-Dichloropropane
8260C	5035	Solid	1,3,5-Trichlorobenzene
8260C	5035	Solid	1,3,5-Trimethylbenzene
8260C	5035	Solid	1,3-Dichlorobenzene
8260C	5035	Solid	1,3-Dichloropropane
8260C	5035	Solid	1,3-Dichloropropene, Total
8260C	5035	Solid	1,4-Dichlorobenzene
8260C	5035	Solid	1,4-Dioxane
8260C	5035	Solid	2,2-Dichloropropane
8260C	5035	Solid	2-Butanone (MEK)

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C	5035	Solid	2-Chlorotoluene
8260C	5035	Solid	2-Hexanone (MBK)
8260C	5035	Solid	4-Chlorotoluene
8260C	5035	Solid	4-Isopropyltoluene
8260C	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260C	5035	Solid	Acetone
8260C	5035	Solid	Acrylonitrile
8260C	5035	Solid	Benzene
8260C	5035	Solid	Bromobenzene
8260C	5035	Solid	Bromochloromethane
8260C	5035	Solid	Bromodichloromethane
8260C	5035	Solid	Bromoform
8260C	5035	Solid	Bromomethane
8260C	5035	Solid	Carbon disulfide
8260C	5035	Solid	Carbon tetrachloride
8260C	5035	Solid	Chlorobenzene
8260C	5035	Solid	Chloroethane
8260C	5035	Solid	Chloroform
8260C	5035	Solid	Chloromethane
8260C	5035	Solid	cis-1,2-Dichloroethene
8260C	5035	Solid	cis-1,3-Dichloropropene
8260C	5035	Solid	Dibromochloromethane
8260C	5035	Solid	Dibromomethane
8260C	5035	Solid	Dichlorodifluoromethane (Freon 12)
8260C	5035	Solid	di-Isopropyl ether
8260C	5035	Solid	Ethanol
8260C	5035	Solid	Ethyl ether
8260C	5035	Solid	Ethyl tert-butyl ether
8260C	5035	Solid	Ethylbenzene
8260C	5035	Solid	Hexachlorobutadiene
8260C	5035	Solid	Isopropylbenzene
8260C	5035	Solid	m,p-Xylene
8260C	5035	Solid	Methyl tert-butyl ether
8260C	5035	Solid	Methylene Chloride
8260C	5035	Solid	Naphthalene
8260C	5035	Solid	n-Butylbenzene
8260C	5035	Solid	N-Propylbenzene
8260C	5035	Solid	o-Xylene
8260C	5035	Solid	sec-Butylbenzene
8260C	5035	Solid	Styrene
8260C	5035	Solid	Tert-amyl methyl ether
8260C	5035	Solid	tert-Butanol
8260C	5035	Solid	tert-Butylbenzene
8260C	5035	Solid	Tetrachloroethene
8260C	5035	Solid	Tetrahydrofuran
8260C	5035	Solid	Toluene
8260C	5035	Solid	trans-1,2-Dichloroethene

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C	5035	Solid	trans-1,3-Dichloropropene
8260C	5035	Solid	trans-1,4-Dichloro-2-butene
8260C	5035	Solid	Trichloroethene
8260C	5035	Solid	Trichlorofluoromethane (Freon 11)
8260C	5035	Solid	Vinyl chloride
8260C	5035	Solid	Xylenes, Total
8270D	3546	Solid	1,2,4,5-Tetrachlorobenzene
8270D	3546	Solid	1,2,4-Trichlorobenzene
8270D	3546	Solid	1,2-Dichlorobenzene
8270D	3546	Solid	1,3-Dichlorobenzene
8270D	3546	Solid	1,4-Dichlorobenzene
8270D	3546	Solid	2,4,5-Trichlorophenol
8270D	3546	Solid	2,4,6-Trichlorophenol
8270D	3546	Solid	2,4-Dichlorophenol
8270D	3546	Solid	2,4-Dimethylphenol
8270D	3546	Solid	2,4-Dinitrophenol
8270D	3546	Solid	2,4-Dinitrotoluene
8270D	3546	Solid	2,6-Dinitrotoluene
8270D	3546	Solid	2-Chloronaphthalene
8270D	3546	Solid	2-Chlorophenol
8270D	3546	Solid	2-Methylphenol
8270D	3546	Solid	2-Nitroaniline
8270D	3546	Solid	2-Nitrophenol
8270D	3546	Solid	3 & 4 Methylphenol
8270D	3546	Solid	3,3'-Dichlorobenzidine
8270D	3546	Solid	3-Nitroaniline
8270D	3546	Solid	4,6-Dinitro-2-methylphenol
8270D	3546	Solid	4-Bromophenyl phenyl ether
8270D	3546	Solid	4-Chloro-3-methylphenol
8270D	3546	Solid	4-Chloroaniline
8270D	3546	Solid	4-Chlorophenyl phenyl ether
8270D	3546	Solid	4-Nitroaniline
8270D	3546	Solid	4-Nitrophenol
8270D	3546	Solid	Acetophenone
8270D	3546	Solid	Aniline
8270D	3546	Solid	Azobenzene/Diphenyldiazene
8270D	3546	Solid	Benzidine
8270D	3546	Solid	Benzoic acid
8270D	3546	Solid	Benzyl alcohol
8270D	3546	Solid	bis (2-chloroisopropyl) ether
8270D	3546	Solid	Bis(2-chloroethoxy)methane
8270D	3546	Solid	Bis(2-chloroethyl)ether
8270D	3546	Solid	Bis(2-ethylhexyl) phthalate
8270D	3546	Solid	Butyl benzyl phthalate
8270D	3546	Solid	Carbazole
8270D	3546	Solid	Dibenzofuran
8270D	3546	Solid	Diethyl phthalate

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3546	Solid	Dimethyl phthalate
8270D	3546	Solid	Di-n-butyl phthalate
8270D	3546	Solid	Di-n-octyl phthalate
8270D	3546	Solid	Hexachlorobenzene
8270D	3546	Solid	Hexachlorobutadiene
8270D	3546	Solid	Hexachlorocyclopentadiene
8270D	3546	Solid	Hexachloroethane
8270D	3546	Solid	Isophorone
8270D	3546	Solid	Nitrobenzene
8270D	3546	Solid	N-Nitrosodimethylamine
8270D	3546	Solid	N-Nitrosodi-n-propylamine
8270D	3546	Solid	N-Nitrosodiphenylamine
8270D	3546	Solid	Pentachloronitrobenzene
8270D	3546	Solid	Pentachlorophenol
8270D	3546	Solid	Phenol
8270D	3546	Solid	Pyridine
8270D_LL_PAH	3546	Solid	1-Methylnaphthalene
8270D_LL_PAH	3546	Solid	2-Methylnaphthalene
8270D_LL_PAH	3546	Solid	Acenaphthene
8270D_LL_PAH	3546	Solid	Acenaphthylene
8270D_LL_PAH	3546	Solid	Anthracene
8270D_LL_PAH	3546	Solid	Benzo[a]anthracene
8270D_LL_PAH	3546	Solid	Benzo[a]pyrene
8270D_LL_PAH	3546	Solid	Benzo[b]fluoranthene
8270D_LL_PAH	3546	Solid	Benzo[g,h,i]perylene
8270D_LL_PAH	3546	Solid	Benzo[k]fluoranthene
8270D_LL_PAH	3546	Solid	Bis(2-ethylhexyl) phthalate
8270D_LL_PAH	3546	Solid	Chrysene
8270D_LL_PAH	3546	Solid	Dibenz(a,h)anthracene
8270D_LL_PAH	3546	Solid	Fluoranthene
8270D_LL_PAH	3546	Solid	Fluorene
8270D_LL_PAH	3546	Solid	Indeno[1,2,3-cd]pyrene
8270D_LL_PAH	3546	Solid	Naphthalene
8270D_LL_PAH	3546	Solid	Phenanthrene
8270D_LL_PAH	3546	Solid	Pyrene
9045D		Solid	pH
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids
SM 2510B		Solid	Specific Conductance

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24

Accreditation/Certification Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	43200	01-31-25
Alaska	State	PA00009	06-30-24
Alaska (UST)	State	17-027	02-28-25
Arizona	State	AZ0780	03-12-25
Arkansas DEQ	State	88-00660	08-09-24
California	State	2792	11-30-24
Colorado	State	PA00009	06-30-24
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-25
Delaware (DW)	State	N/A	01-31-25
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-25
Hawaii	State	N/A	01-31-25
Illinois	NELAP	200027	01-31-25
Iowa	State	361	03-01-24 *
Kansas	NELAP	E-10151	10-31-24
Kentucky (DW)	State	KY90088	12-31-24
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23 *
Louisiana (All)	NELAP	02055	06-30-24
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-24
Massachusetts	State	M-PA009	06-30-24
Michigan	State	9930	01-31-25
Minnesota	NELAP	042-999-487	12-31-24
Mississippi	State	023	01-31-25
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-25
New Hampshire	NELAP	2730	01-10-25
New Jersey	NELAP	PA011	06-30-24
New York	NELAP	10670	03-31-24
North Carolina (DW)	State	42705	07-31-24
North Carolina (WW/SW)	State	521	12-31-24
Oklahoma	NELAP	9804	08-31-24
Oregon	NELAP	PA200001	09-11-24
Pennsylvania	NELAP	36-00037	01-28-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-24
Rhode Island	State	LAO00338	12-30-24
South Carolina	State	89002	01-31-24 *
Tennessee	State	02838	01-31-25
Texas	NELAP	T104704194-23-46	08-31-24
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-24
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-24
West Virginia (DW)	State	9906 C	01-31-25
West Virginia DEP	State	055	07-31-24
Wyoming	State	8TMS-L	01-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	EET NE
8270D	Semivolatile Organic Compounds (GC/MS)	MA DEP	EET NE
8270D_LL_PAH	Semivolatile Organic Compounds (GC/MS) Low level PAH	SW846	EET NE
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
8100	Polynuclear Aromatic Hydrocarbons (PAHs) (GC)	SW846	EET NE
6010D	Metals (ICP)	SW846	EET NE
7471A	Mercury (CVAA)	SW846	EET NE
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	ELLE
9012	Cyanide, Reactive	SW846	ELLE
9034	Sulfide, Reactive	SW846	ELLE
9045D	pH	SW846	EET NE
9060	Organic Carbon, Total (TOC)	SW846	ELLE
Moisture	Percent Moisture	EPA	EET NE
SM 2510B	Conductivity, Specific Conductance	SM	EET NE
1311	TCLP Extraction	SW846	EET NE
3010A	Preparation, Total Metals	SW846	EET NE
3050B	Preparation, Metals	SW846	EET NE
3540C	Soxhlet Extraction	SW846	EET NE
3546	Microwave Extraction	SW846	EET NE
5035	Closed System Purge and Trap	SW846	EET NE
7.3.3	Cyanide, Reactive	SW846	ELLE
7.3.4	Sulfide, Reactive	SW846	ELLE
7471B	Preparation, Mercury	SW846	EET NE
DI Leach	Deionized Water Leaching Procedure	ASTM	EET NE
Frozen Preserve	Freezing Samples	None	EET NE

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
MA DEP = Massachusetts Department Of Environmental Protection
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-17450-1	ATC-3 (0-5)	Solid	03/15/24 09:10	03/18/24 15:25
620-17450-2	ATC-3 (5-10)	Solid	03/15/24 09:30	03/18/24 15:25
620-17450-3	ATC-2 (0-5)	Solid	03/15/24 10:15	03/18/24 15:25
620-17450-4	ATC-2 (5-10)	Solid	03/15/24 11:00	03/18/24 15:25
620-17450-5	ATC-1 (0-5)	Solid	03/15/24 11:20	03/18/24 15:25
620-17450-6	ATC-1 (5-10)	Solid	03/15/24 11:30	03/18/24 15:25
620-17450-7	Comp (0-5)	Solid	03/15/24 12:00	03/18/24 15:25
620-17450-8	Comp (5-10)	Solid	03/15/24 12:15	03/18/24 15:25
620-17450-9	ATC-8 (0-5)	Solid	03/14/24 10:00	03/18/24 15:25
620-17450-10	ATC-8 (5-10)	Solid	03/14/24 11:50	03/18/24 15:25
620-17450-11	ATC-7 (0-5)	Solid	03/14/24 11:10	03/18/24 15:25
620-17450-12	ATC-7 (5-10)	Solid	03/14/24 12:10	03/18/24 15:25
620-17450-13	ATC-6 (0-5)	Solid	03/14/24 12:30	03/18/24 15:25
620-17450-14	ATC-6 (5-10)	Solid	03/14/24 12:45	03/18/24 15:25
620-17450-15	ATC-4 (0-5)	Solid	03/14/24 13:40	03/18/24 15:25
620-17450-16	ATC-4 (5-10)	Solid	03/14/24 13:55	03/18/24 15:25
620-17450-17	ATC-5 (0-5)	Solid	03/14/24 14:25	03/18/24 15:25
620-17450-18	ATC-5 (5-10)	Solid	03/14/24 12:10	03/18/24 15:25

620-17450 Chain of Custody

17450

CHAIN OF CUSTODY RECORD

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Special Handling:

- ☑ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed _____

All TATs subject to laboratory approval
Min 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: Atlas Technical Consultants LLC
10 State Street, Suite 100
Woburn, MA 01801
Telephone #: 781-404-1431
Project Mgr: Stephan Landry

Invoice To: Atlas
P O No: _____ Quote #: _____

Project No: 6000007464
Site Name: Tufts Street Improvement
Location: Tuftsd St., Somerville MA State: MA
Sampler(s): Eric Marchese

F=Field Filtered 1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= Iced 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= _____ X2= _____ X3= _____

G= Grab C=Composite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	8260 Low Level	Analysis: GUC (unusual CIMS) 8270	PCB 8082	RCRA 8 Metals TCLP Pb	TPH 8100	PH & total organic cyanide	Flashpoint Conductivity	Reactivity cyanide & sulfide	Check if chlorinated
-1	ATC-3 (0-5)	3/15/24	0910	G	SO	3			1	X								☐
-2	ATC-3 (5-10)		0930						1									☐
-3	ATC-2 (0-5)		1015						1									☐
-4	ATC-2 (5-10)		1100						1									☐
-5	ATC-1 (0-5)		1120						1									☐
-6	ATC-1 (5-10)		1130						1									☐
																		☐
-7	Comp (0-5)		1200	C	SO		4				X	X	X	X	X	X	X	☐
-8	Comp (5-10)		1215	C	SO		4				X	X	X	X	X	X	X	☐
																		☐

List Preservative Code below: 7,9 | 11 | 11 | 11 | 11 | 11 | 11 | 11

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☑ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☑ No
☑ Standard ☐ No QC ☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☑ Other: MassDEP S-1
State-specific reporting standards

Relinquished by:	Received by:	Date:	Time:
Eric Marchese	Atlas Fridge	3/15/24	1500
		3/18/24	1240
		3/18/24	1828

Temp °C: Observed 4.2 | Correction Factor +0.2 | Corrected 4.4 | IR ID # 6

☑ EDD format: Stephan.Landry@oneatlas.com
☑ E-mail to: Stephan.Landry@oneatlas.com
DI Samples frozen 3/14/24 at 1500 3/15/24 at 1500

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Sample shipping address: 11 Almgren Drive • Agawam, MA 01001 • 413-789-9018 • www.EurofinsUS.com/Spectrum

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17450

eurofins | Spectrum Analytical

CHAIN OF CUSTODY RECORD

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Special Handling:

- ☑ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed _____

All TATs subject to laboratory approval
Min 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: Atlas Technical Consultants LLC
10 State Street, Suite 100
Woburn, MA 01801
Telephone #: 781-404-1431
Project Mgr: Stephan Landry

Invoice To: Atlas
P O No: _____ Quote #: _____

Project No: 6000007464
Site Name: Tufts Street Improvement
Location: Tuftsd St., Somerville MA State: MA
Sampler(s): Eric Marchese

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= iced 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= _____ X2= _____ X3= _____

G= Grab C=Compsite

List Preservative Code below: 7,9

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☑ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☑ No
☑ Standard ☐ No QC ☐ DQA* ☐ ASP A* ☐ ASP B* ☐ NJ Reduced* ☐ NJ Full* ☐ Tier II* ☐ Tier IV*
☑ Other: MassDEP S-1
State-specific reporting standards

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	8260 Low Level	Check if chlorinated
-9	ATC-9 (0-5)	3-14-24	1000	G	SO	3			1	X	☐
-10	ATC-8 (5-10)		1150			1			1		☐
-11	ATC-7 (0-5)		1110			1			1		☐
-12	ATC-7 (5-10)		1210			1			1		☐
-13	ATC-6 (0-5)		1230			1			1		☐
-14	ATC-6 (5-10)		1245			1			1		☐
-15	ATC-64 (0-5)		1340			1			1		☐
-16	ATC-4 (5-10)		1355			1			1		☐
-17	ATC-5 (0-5)		1425			1			1		☐
-18	ATC 5 (5-10)		1510			1			1		☐

Relinquished by:	Received by:	Date:	Time:	Temp °C
Eric Marchese	Atlas Fridge	3/15/24	1500	Observed 4.2
Ken Fox		3/18/24	1240	Correction Factor -0.2
		3/18/24	1525	Corrected 4.4
				IR ID # 6

☑ EDD format. Stephan.Landry@oneatlas com
☑ E-mail to Stephan.Landry@oneatlas com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☑ Refrigerated ☑ DI VOA Frozen ☐ Soil Jar Frozen

4/3/2024 (Rev. 1)

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018 Fax: 413-506-3830

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-13903.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-17450-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/25/2024			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Tufts Street Improvement - Somerville, M	Project #: 62002926			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1010A/ Flashpoint	9060	9012_ReactiveCN/7.3.3	9034_Reactive/7.3.4	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
Comp (0-5) (620-17450-7)	3/15/24	12:00 Eastern		Solid			X	X	X	X	1	
Comp (5-10) (620-17450-8)	3/15/24	12:15 Eastern		Solid			X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/18/24 16:59	ECC			
2						
3					3/19/24 1055	ECC

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: Raw 1.8- COR 1.6

Ver: 06/08/2021

MB

Login Sample Receipt Checklist

Client: Atlas Technical Consultants LLC

Job Number: 620-17450-1

Login Number: 17450
List Number: 1
Creator: Scott, Krishnan F

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Atlas Technical Consultants LLC

Job Number: 620-17450-1

Login Number: 17450
List Number: 2
Creator: Ballard, Megan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 03/19/24 12:15 PM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

APPENDIX F

RTN 3-23246 GROUNDWATER ELEVATION AND DATA TABLES

Table 9-1. Groundwater Elevations
Phase V Status Report No. 24 and Remedial Monitoring Report No. 39
50 Tufts Street
Somerville, Massachusetts

		Gauging Date:	5/15/2006		5/16/2006		5/23/2006		5/31/2006		7/24/2006		8/1/2006		8/3/2006	
Monitoring Well ID	Well Screen Interval (ft bgs)	Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.90	9.69	16.21	9.53	16.37	10.9	15	11.39	14.51	--	--	--	--	--	--
MW-2	unknown	25.38	8.99	16.39	10.36	15.02	Dry	Dry	Dry	Dry	--	--	--	--	--	--
MW-3	unknown	25.31	8.88	16.43	9.32	15.99	11.16	14.15	12.71	12.6	--	--	--	--	--	--
MW-101	9-19	26.75	--	--	10.56	16.19	11.53	15.22	12.1	14.65	12.33	14.42	12.51	14.24	13.47	13.28
MW-102	6-16	18.89	--	--	6.62	12.27	6.86	12.03	7.44	11.45	7.93	10.96	8.16	10.73	9.11	9.78
MW-103	6-16	19.47	--	--	9.5	9.97	10.37	9.1	10.74	8.73	11.15	8.32	11.31	8.16	12.24	7.23
MW-104	5-15	17.67	--	--	--	--	7.93	9.74	8.89	8.78	9.06	8.61	9.39	8.28	10.29	7.38
MW-105	19-29	38.84	--	--	19.49	19.35	20.21	18.63	20.7	18.14	21.18	17.66	21.43	17.41	22.41	16.43
MW-106	9 - 19	26.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-107	2 - 12	14.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108	2 - 12	12.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-109	3 - 13	24.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110	3 - 13	15.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111	4 - 14	18.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-112	3 - 10	18.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-112a	4-19	17.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-113	10-20	26.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114	7-17	29.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-115	10-25	27.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-116	5-15	13.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-117S	5 - 20	21.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-117T	35 - 45	21.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-117D	60 - 70	21.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-118S	3 - 14	15.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-118T	39.5 - 49.5	15.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-118D	70 - 80	15.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-119S	5 - 20	11.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-119T	42 - 47	11.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-120S	5 - 20	12.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-120D	28 - 38	12.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-121S	5 - 20	12.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-121D	32 - 47	12.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-122	4 - 16	16.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GEO-1	5 - 20	25.88	9.69	16.19	9.9	15.98	10.92	14.96	11.36	14.52	--	--	--	--	--	--
GEO-2	5 - 20	26.54	9.76	16.78	--	--	11.38	15.16	11.91	14.63	--	--	--	--	--	--
GEO-3	5 - 20	25.64	10.43	15.21	9.59	16.05	9.87	15.77	10.67	14.97	11.67	13.97	11.85	13.79	12.84	12.8
GEO-4	4 - 19	21.69	--	--	7.79	13.9	9.85	11.84	10.78	10.91	11.25	10.44	11.45	10.24	12.43	9.26
GEO-5	5 - 20	20.14	--	--	6.78	13.36	9.08	11.06	9.96	10.18	10.29	9.85	10.56	9.58	11.51	8.63
GEO-6	5 - 20	17.62	--	--	5.66	11.96	7.39	10.23	8.23	9.39	8.43	9.19	8.73	8.89	9.64	7.98
SH-1	9 - 14	29.55	10.15	19.4	11.4	18.15	Dry	Dry	Dry	Dry	--	--	--	--	--	--
SH-2	7 - 14	29.64	5.71	23.93	7.86	21.78	12.07	17.57	12.22	17.42	--	--	--	--	--	--
SH-3	8 - 13	29.66	7.54	22.12	8.56	21.1	12.73	16.93	12.96	16.7	--	--	--	--	--	--
SH-4	11 - 16	29.63	13.53	16.1	13.48	16.15	14.48	15.15	15.02	14.61	--	--	--	--	--	--
SH-5	8 - 13	29.63	Dry	Dry	--	--	12.99	16.64	13.03	16.6	--	--	--	--	--	--
SH-MW1	10 - 30	24.02	6.72	17.3	--	--	11.44	12.58	12.18	11.84	--	--	--	--	--	--
SH-MW2	10 - 25	24.27	9.33	14.94	--	--	12.05	12.22	12.69	11.58	--	--	--	--	--	--
SH-MW3	10 - 24	22.31	7.8	14.51	--	--	10.26	12.05	11.03	11.28	--	--	--	--	--	--
MW201	11-21	27.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW202	10.5-20.5	27.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW203	6-18	21.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--

General Notes:
1. ft = feet.
2. bgs = below ground surface.
3. ID = identification.
4 GW = groundwater.
5. NAVD = North American Vertical Datum of 1988.
6. The top of the PVC riser was used as the measuring point for depth to groundwater.
7. "--" = Well not yet installed, abandoned, or not measured.

Table 9-1. Groundwater Elevations
Phase V Status Report No. 24 and Remedial Monitoring Report No. 39
50 Tufts Street
Somerville, Massachusetts

		Gauging Date:	8/16/2006		9/29/2006		10/4/2006		11/14/2006		12/12/2006		1/16/2007		2/12/2007	
Monitoring Well ID	Well Screen Interval (ft bgs)	Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.90	11.9	14	--	--	11.88	14.02	--	--	--	--	11.6	14.3	--	--
MW-2	unknown	25.38	Dry	Dry	--	--	--	--	--	--	--	--	Destroyed	Destroyed	--	--
MW-3	unknown	25.31	13.73	11.58	--	--	13.75	11.56	--	--	--	--	13.05	12.26	--	--
MW-101	9-19	26.75	12.78	13.97	12.85	13.9	12.76	13.99	12.25	14.5	12.57	14.18	12.4	14.35	12.81	13.94
MW-102	6-16	18.89	8.51	10.38	8.68	10.21	8.52	10.37	7.64	11.25	8.01	10.88	7.72	11.17	8.52	10.37
MW-103	6-16	19.47	11.72	7.75	11.98	7.49	11.92	7.55	11	8.47	11.21	8.26	10.88	8.59	11.74	7.73
MW-104	5-15	17.67	9.87	7.8	9.95	7.72	9.92	7.75	--	--	--	--	8.73	8.94	--	--
MW-105	19-29	38.84	21.91	16.93	22.27	16.57	22.18	16.66	21.16	17.68	21.76	17.08	21.46	17.38	22.03	16.81
MW-106	9 - 19	26.33	--	--	--	--	--	--	--	--	--	--	--	--	12.27	14.06
MW-107	2 - 12	14.63	--	--	--	--	--	--	--	--	--	--	--	--	4.54	10.09
MW-108	2 - 12	12.74	--	--	--	--	--	--	--	--	--	--	--	--	4.93	7.81
MW-109	3 - 13	24.12	--	--	--	--	--	--	--	--	--	--	--	--	12.07	12.05
MW-110	3 - 13	15.58	--	--	--	--	--	--	--	--	--	--	--	--	5.99	9.59
MW-111	4 - 14	18.95	--	--	--	--	--	--	--	--	--	--	--	--	11.38	7.57
MW-112	3 - 10	18.16	--	--	--	--	--	--	--	--	--	--	--	--	Dry	Dry
MW-112a	4-19	17.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-113	10-20	26.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114	7-17	29.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-115	10-25	27.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-116	5-15	13.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-117S	5 - 20	21.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-117T	35 - 45	21.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-117D	60 - 70	21.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-118S	3 - 14	15.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-118T	39.5 - 49.5	15.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-118D	70 - 80	15.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-119S	5 - 20	11.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-119T	42 - 47	11.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-120S	5 - 20	12.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-120D	28 - 38	12.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-121S	5 - 20	12.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-121D	32 - 47	12.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-122	4 - 16	16.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GEO-1	5 - 20	25.88	11.82	14.06	--	--	11.85	14.03	--	--	--	--	11.55	14.33	--	--
GEO-2	5 - 20	26.54	12.51	14.03	--	--	12.51	14.03	--	--	--	--	12.2	14.34	--	--
GEO-3	5 - 20	25.64	12.25	13.39	12.37	2.84	12.35	13.29	11.63	14.01	11.72	13.92	11.58	14.06	12.21	13.43
GEO-4	4 - 19	21.69	11.9	9.79	12.09	9.6	12.04	9.65	10.58	11.11	11.31	10.38	10.77	10.92	11.83	9.86
GEO-5	5 - 20	20.14	10.99	9.15	11.21	8.93	11.15	8.99	9.47	10.67	10.48	9.66	9.73	10.41	11.02	9.12
GEO-6	5 - 20	17.62	9.25	8.37	9.41	8.21	9.26	8.36	7.65	9.97	8.82	8.8	8.11	9.51	9.3	8.32
SH-1	9 - 14	29.55	Dry	Dry	--	--	Dry	Dry	--	--	--	--	Dry	Dry	--	--
SH-2	7 - 14	29.64	11.98	17.66	--	--	12	17.64	--	--	--	--	Dry	Dry	--	--
SH-3	8 - 13	29.66	Dry	Dry	--	--	Dry	Dry	--	--	--	--	Dry	Dry	--	--
SH-4	11 - 16	29.63	15.09	14.54	--	--	15.1	14.53	--	--	--	--	Dry	Dry	--	--
SH-5	8 - 13	29.63	Dry	Dry	--	--	Dry	Dry	--	--	--	--	Dry	Dry	--	--
SH-MW1	10 - 30	24.02	13.09	10.93	--	--	13.17	10.85	--	--	--	--	12.21	11.81	--	--
SH-MW2	10 - 25	24.27	13.38	10.89	--	--	13.41	10.86	--	--	--	--	12.73	11.54	--	--
SH-MW3	10 - 24	22.31	13	9.31	--	--	12.04	10.27	--	--	--	--	11.04	11.27	--	--
MW201	11-21	27.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW202	10.5-20.5	27.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW203	6-18	21.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--

General Notes:
1. ft = feet.
2. bgs = below ground surface.
3. ID = identification.
4 GW = groundwater.
5. NAVD = North American Vertical Datum of 1988.
6. The top of the PVC riser was used as the measuring point for depth to groundwater.
7. "--" = Well not yet installed, abandoned, or not measured.

Table 9-1. Groundwater Elevations
Phase V Status Report No. 24 and Remedial Monitoring Report No. 39
50 Tufts Street
Somerville, Massachusetts

		Gauging Date:	3/14/2007		4/12/2007		5/29/2007		6/26/2007		7/16/2007		8/22/2007		9/27/2007		10/23/2007	
Monitoring Well ID	Well Screen Interval (ft bgs)	Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.90	--	--	11.39	14.51	11.41	14.49	11.8	14.1	12.04	13.86	--	--	12.26	13.64	12.07	13.83
MW-2	unknown	25.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	unknown	25.31	--	--	12.57	12.74	14.89	10.42	13.6	11.71	13.94	11.37	--	--	14.34	10.97	13.94	11.37
MW-101	9-19	26.75	12.34	14.41	12.11	14.64	12.17	14.58	12.62	14.13	12.85	13.9	13.03	13.72	13.17	13.58	12.91	13.84
MW-102	6-16	18.89	--	--	7.46	11.43	6.72	12.17	8.36	10.53	8.74	10.15	9.08	9.81	9.35	9.54	8.97	9.92
MW-103	6-16	19.47	11	8.47	10.66	8.81	10.81	8.66	11.47	8.0	11.92	7.55	12.3	7.17	12.63	6.84	--	--
MW-104	5-15	17.67	--	--	8.75	8.92	--	--	9.62	8.05	10.09	7.58	10.36	7.31	10.61	7.06	10.31	7.36
MW-105	19-29	38.84	21.56	17.28	20.88	17.96	20.86	17.98	21.55	17.29	22.13	16.71	22.79	16.05	23.18	15.66	22.96	15.88
MW-106	9 - 19	26.33	12.91	13.42	11.65	14.68	11.69	14.64	12.07	14.26	12.33	14	12.48	13.85	12.61	13.72	12.39	13.94
MW-107	2 - 12	14.63	4.5	10.13	4.49	10.14	4.46	10.17	4.48	10.15	4.52	10.11	4.75	9.88	4.51	10.12	4.47	10.16
MW-108	2 - 12	12.74	4.02	8.72	9.91	2.83	4.25	8.49	5.06	7.68	6.59	6.15	6.25	6.49	6.28	6.46	5.86	6.88
MW-109	3 - 13	24.12	11.27	12.85	10.27	13.85	10.73	13.39	11.76	12.36	12.24	11.88	Dry	Dry	Dry	Dry	Dry	Dry
MW-110	3 - 13	15.58	1.46	14.12	1.04	14.54	2.56	13.02	6.57	9.01	7.17	8.41	7.86	7.72	8.37	7.21	6.92	8.66
MW-111	4 - 14	18.95	10.62	8.33	10.65	8.3	10.68	8.27	11.11	7.84	11.54	7.41	11.96	6.99	12.34	6.61	11.99	6.96
MW-112	3 - 10	18.16	8.01	10.15	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
MW-112a	4-19	17.78	12.76	5.02	12.76	5.02	12.67	5.11	12.81	4.97	12.88	4.9	--	--	12.95	4.83	12.8	4.98
MW-113	10-20	26.16	11.66	14.5	11.44	14.72	11.51	14.65	11.99	14.17	12.22	13.94	12.43	13.73	12.58	13.58	12.3	13.86
MW-114	7-17	29.43	12.67	16.76	11.27	18.16	11.53	17.9	12.88	16.55	15.57	13.86	14.24	15.19	14.84	14.59	14.66	14.77
MW-115	10-25	27.15	17.19	9.96	16.21	10.94	16.63	10.52	17.42	9.73	17.97	9.18	18.38	8.77	18.81	8.34	18.37	8.78
MW-116	5-15	13.45	8.78	4.67	8.34	5.11	8.65	4.8	8.76	4.69	--	--	8.85	4.6	8.91	4.54	8.83	4.62
MW-117S	5 - 20	21.94	--	--	--	--	--	--	--	--	15.27	6.67	15.7	6.24	16.03	5.91	16.2	5.74
MW-117T	35 - 45	21.87	--	--	--	--	--	--	--	--	15.95	5.92	16.38	5.49	16.81	5.06	16.91	4.96
MW-117D	60 - 70	21.78	--	--	--	--	--	--	--	--	15.87	5.91	16.26	5.52	16.69	5.09	16.77	5.01
MW-118S	3 - 14	15.52	--	--	--	--	--	--	--	--	11.64	3.88	9.84	5.68	10.2	5.32	9.42	6.1
MW-118T	39.5 - 49.5	15.30	--	--	--	--	--	--	--	--	10.36	4.94	10.51	4.79	10.74	4.56	10.68	4.62
MW-118D	70 - 80	15.15	--	--	--	--	--	--	--	--	10.18	4.97	10.32	4.83	10.55	4.6	10.49	4.66
MW-119S	5 - 20	11.74	--	--	--	--	--	--	--	--	--	--	4.91	6.83	4.99	6.75	4.93	6.81
MW-119T	42 - 47	11.67	--	--	--	--	--	--	--	--	--	--	6.45	5.22	6.8	4.87	6.72	4.95
MW-120S	5 - 20	12.54	--	--	--	--	--	--	--	--	--	--	5.25	7.29	5.35	7.19	4.71	7.83
MW-120D	28 - 38	12.45	--	--	--	--	--	--	--	--	--	--	--	--	4.21	8.24	3.94	8.51
MW-121S	5 - 20	12.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.36	5.08
MW-121D	32 - 47	12.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.92	4.89
MW-122	4 - 16	16.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GEO-1	5 - 20	25.88	--	--	11.36	14.52	11.38	14.5	11.73	14.15	11.93	13.95	12.1	13.78	12.21	13.67	11.98	13.9
GEO-2	5 - 20	26.54	--	--	11.97	14.57	11.99	14.55	12.4	14.14	13.6	12.94	12.81	13.73	12.91	13.63	12.63	13.91
GEO-3	5 - 20	25.64	11.49	14.15	10.76	14.88	11.04	14.6	11.94	13.7	---	---	12.7	12.94	12.94	12.7	12.61	13.03
GEO-4	4 - 19	21.69	11.03	10.66	10.51	11.18	10.87	10.82	11.64	10.05	12.09	9.6	12.55	9.14	13.02	8.67	12.64	9.05
GEO-5	5 - 20	20.14	10.15	9.99	9.7	10.44	10.01	10.13	10.79	9.35	11.25	8.89	11.74	8.4	11.18	8.96	11.72	8.42
GEO-6	5 - 20	17.62	8.54	9.08	8.32	9.3	8.25	9.37	8.9	8.72	9.5	8.12	9.92	7.7	10.22	7.4	9.96	7.66
SH-1	9 - 14	29.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-2	7 - 14	29.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-3	8 - 13	29.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-4	11 - 16	29.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-5	8 - 13	29.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW1	10 - 30	24.02	--	--	12.01	12.01	12.26	11.76	---	---	---	---	--	--	--	--	--	--
SH-MW2	10 - 25	24.27	--	--	12.61	11.66	12.74	11.53	13.25	11.02	13.48	10.79	13.72	10.55	14.04	10.23	13.68	10.59
SH-MW3	10 - 24	22.31	--	--	10.81	11.5	--	--	11.72	10.59	12.08	10.23	12.43	9.88	12.79	9.52	12.41	9.9
MW201	11-21	27.51	--	--	--	--	--	--	--	--	--	--	13.71	13.8	13.83	13.68	13.58	13.93
MW202	10.5-20.5	27.82	--	--	--	--	--	--	--	--	--	--	13.99	13.83	14.08	13.74	13.88	13.94
MW203	6-18	21.80	--	--	--	--	--	--	--	--	--	--	14.05	7.75	14.39	7.41	13.86	7.94

General Notes:
1. ft = feet.
2. bgs = below ground surface.
3. ID = identification.
4 GW = groundwater.
5. NAVD = North American Vertical Datum of 1988.
6. The top of the PVC riser was used as the measuring point for depth to groundwater.
7. "--" = Well not yet installed, abandoned, or not measured.

Table 9-1. Groundwater Elevations
Phase V Status Report No. 24 and Remedial Monitoring Report No. 39
50 Tufts Street
Somerville, Massachusetts

		Gauging Date:	11/30/2007		1/9/2008		2/26/2008		3/18/2008		4/15/2008		5/19/2008		7/14/08		8/22/08	
Monitoring Well ID	Well Screen Interval (ft bgs)	Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.90	11.95	13.95	--	--	--	--	--	--	11.42	14.48	11.57	14.33	--	--	--	--
MW-2	unknown	25.38	--	--	--	--	--	--	--	--	--	---	--	--	--	--	--	--
MW-3	unknown	25.31	13.75	11.56	12.86	12.45	12.05	13.26	12.37	12.94	12.81	12.5	12.99	---	--	--	--	--
MW-101	9-19	26.75	13.82	12.93	12.11	14.64	--	--	11.85	14.9	12.02	14.73	12.26	14.49	13.11	13.64	--	--
MW-102	6-16	18.89	8.01	10.88	7.46	11.43	7.29	11.6	7.17	11.72	8.57	10.32	7.9	10.99	9.51	9.38	8.00	10.89
MW-103	6-16	19.47	12.18	7.29	10.74	8.73	10.51	8.96	10.5	8.97	10.82	8.65	11.11	8.36	12.17	7.30	11.17	8.30
MW-104	5-15	17.67	10.07	7.6	8.86	8.81	8.61	9.06	8.48	9.19	9.84	7.83	9.25	8.42	9.67	8.00	9.06	8.61
MW-105	19-29	38.84	22.74	16.1	21.39	17.45	20.79	18.05	20.41	18.43	20.91	17.93	21.24	17.6	22.02	16.82	21.40	17.44
MW-106	9 - 19	26.33	12.27	14.06	11.71	14.62	11.51	14.82	11.38	14.95	12.54	13.79	11.72	14.61	11.68	14.65	11.73	14.60
MW-107	2 - 12	14.63	4.44	10.19	4.35	10.28	--	--	4.46	10.17	5.58	9.05	---	---	4.52	10.11	4.41	10.22
MW-108	2 - 12	12.74	4.74	8.0	3.71	9.03	4.61	8.13	3.68	9.06	3.91	8.83	3.99	8.75	5.16	7.58	4.44	8.30
MW-109	3 - 13	24.12	12.78	11.34	10.64	13.48	10.06	14.06	10.02	14.1	11.64	12.48	11.29	12.83	11.87	12.25	11.18	12.94
MW-110	3 - 13	15.58	3.34	12.24	--	--	0.79	14.79	1.12	14.46	1.57	14.01	2.5	13.08	--	--	3.59	11.99
MW-111	4 - 14	18.95	12.27	6.68	10.51	8.44	10.5	8.45	10.54	8.41	16.64	2.31	10.71	8.24	12.23	6.72	10.73	8.22
MW-112	3 - 10	18.16	Dry	Dry	Dry	Dry	Dry	Dry	--	--	----	---	---	---	--	--	8.33	9.83
MW-112a	4-19	17.78	--	--	12.43	5.35	12.52	5.26	12.61	5.17	13.71	4.07	12.77	5.01	13.56	4.22	12.93	4.85
MW-113	10-20	26.16	12.6	13.56	11.5	14.66	11.28	14.88	11.15	15.01	11.39	14.77	11.62	14.54	12.01	14.15	11.63	14.53
MW-114	7-17	29.43	14.31	15.12	12.08	17.35	11.11	18.32	10.75	18.68	12.42	17.01	12.3	17.13	13.24	16.19	12.21	17.22
MW-115	10-25	27.15	18.24	8.91	16.18	10.97	15.85	11.3	15.86	11.29	16.45	10.7	16.72	10.43	18.49	8.66	16.78	10.37
MW-116	5-15	13.45	--	--	8.6	4.85	8.68	4.77	8.77	4.68	8.85	4.6	8.88	4.57	9.09	4.36	9.01	4.44
MW-117S	5 - 20	21.94	15.95	5.99	13.97	7.97	13.52	8.42	13.5	8.44	14.22	7.72	14.6	7.34	14.99	6.95	13.90	8.04
MW-117T	35 - 45	21.87	16.58	5.29	14.58	7.29	13.97	7.9	13.9	7.97	14.67	7.2	14.94	6.93	15.68	6.19	15.27	6.60
MW-117D	60 - 70	21.78	16.44	5.34	14.46	7.32	13.86	7.92	13.81	7.97	14.51	7.27	14.89	6.89	15.61	6.17	14.67	7.11
MW-118S	3 - 14	15.52	9.4	6.12	8.55	6.97	8.34	7.18	8.4	7.12	10	5.52	9.38	6.14	9.64	5.88	8.48	7.04
MW-118T	39.5 - 49.5	15.30	10.5	4.8	9.93	5.37	9.49	5.81	9.53	5.77	9.83	5.47	9.94	5.36	10.35	4.95	9.92	5.38
MW-118D	70 - 80	15.15	10.25	4.9	9.55	5.6	9.3	5.85	9.35	5.8	9.64	5.51	9.8	5.35	10.11	5.04	9.70	5.45
MW-119S	5 - 20	11.74	4.85	6.89	4.63	7.11	4.6	7.14	4.56	7.18	4.91	6.83	4.92	6.82	4.94	6.80	6.08	5.66
MW-119T	42 - 47	11.67	6.57	5.1	5.82	5.85	5.63	6.04	5.78	5.89	5.97	5.7	6.1	5.57	6.52	5.15	4.52	7.15
MW-120S	5 - 20	12.54	4.62	7.92	3.51	9.03	4.06	8.48	4.0	8.54	5.1	7.44	4.57	7.97	5.18	7.36	4.61	7.93
MW-120D	28 - 38	12.45	3.48	8.97	3.17	9.28	2.96	9.49	3.11	9.34	3.26	9.19	3.44	9.01	3.82	8.63	2.90	9.55
MW-121S	5 - 20	12.44	7.41	5.03	7.24	5.2	7.36	5.08	7.41	5.03	9.39	3.05	7.29	5.15	9.21	3.23	7.70	4.74
MW-121D	32 - 47	12.81	7.75	5.06	6.95	5.86	6.83	5.98	6.91	5.9	7.31	5.5	7.27	5.54	7.64	5.17	7.30	5.51
MW-122	4 - 16	16.42	--	--	--	--	12.98	3.44	13	3.42	13.03	3.39	12.99	3.43	13.15	3.27	13.17	3.25
GEO-1	5 - 20	25.88	11.91	13.97	11.41	14.47	11.22	14.66	--	--	11.25	14.63	11.4	14.48	12.32	13.56	12.00	13.88
GEO-2	5 - 20	26.54	12.57	13.97	12.02	14.52	11.77	14.77	--	--	12.81	13.73	12.01	14.53	11.73	14.81	11.41	15.13
GEO-3	5 - 20	25.64	12.54	13.1	10.99	14.65	10.71	14.93	--	--	10.97	14.67	---	---	12.05	13.59	11.57	14.07
GEO-4	4 - 19	21.69	12.47	9.22	11.72	9.97	10.36	11.33	10.34	11.35	11.46	10.23	11.13	10.56	11.60	10.09	11.16	10.53
GEO-5	5 - 20	20.14	12.62	7.52	9.92	10.22	9.42	10.72	9.52	10.62	10.8	9.34	10.21	9.93	10.89	9.25	10.28	9.86
GEO-6	5 - 20	17.62	9.96	7.66	8.21	9.41	7.78	9.84	7.86	9.76	9.11	8.51	8.51	9.11	9.20	8.42	7.91	9.71
SH-1	9 - 14	29.55	--	--	--	--	--	--	--	--	---	---	---	---	--	--	--	--
SH-2	7 - 14	29.64	--	--	--	--	--	--	--	--	---	---	---	---	--	--	--	--
SH-3	8 - 13	29.66	--	--	--	--	--	--	--	--	---	---	---	---	--	--	--	--
SH-4	11 - 16	29.63	--	--	--	--	--	--	--	--	---	---	---	---	--	--	--	--
SH-5	8 - 13	29.63	--	--	--	--	--	--	--	--	---	---	---	---	--	--	--	--
SH-MW1	10 - 30	24.02	--	--	--	--	--	--	--	--	---	---	---	---	--	--	--	--
SH-MW2	10 - 25	24.27	13.85	10.42	12.77	11.5	12.49	11.78	12.46	11.81	13.62	10.65	12.89	11.38	11.83	12.44	12.92	11.35
SH-MW3	10 - 24	22.31	12.05	10.26	11.55	10.76	10.68	11.63	10.65	11.66	11.83	10.48	11.21	11.1	13.27	9.04	11.30	11.01
MW201	11-21	27.51	13.5	14.01	12.98	14.53	12.76	14.75	12.64	14.87	12.85	14.66	13.94	13.57	13.31	14.2	13.00	14.51
MW202	10.5-20.5	27.82	13.81	14.01	13.41	14.41	13.22	14.6	13.12	14.7	12.73	15.09	13.37	14.45	13.68	14.14	13.41	14.41
MW203	6-18	21.80	13.61	8.19	12.86	8.94	12.03	9.77	12	9.8	13.31	8.49	12.68	9.12	13.15	8.65	12.55	9.25

General Notes:
1. ft = feet.
2. bgs = below ground surface.
3. ID = identification.
4 GW = groundwater.
5. NAVD = North American Vertical Datum of 1988.
6. The top of the PVC riser was used as the measuring point for depth to groundwater.
7. "--" = Well not yet installed, abandoned, or not measured.

Table 9-1. Groundwater Elevations
Phase V Status Report No. 24 and Remedial Monitoring Report No. 39
50 Tufts Street
Somerville, Massachusetts

		Gauging Date:	10/20/08		1/13/09		4/13/09		7/14/09		10/14/09		4/12/10		10/27/10		4/20/11	
Monitoring Well ID	Well Screen Interval (ft bgs)	Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	unknown	25.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	unknown	25.31	--	--	12.49	12.82	12.28	13.03	12.92	12.39	13.19	12.12	--	--	--	--	--	--
MW-101	9-19	26.75	12.61	14.14	12.07	14.68	11.91	14.84	12.2	14.55	12.37	14.38	11.61	15.14	--	--	11.73	15.02
MW-102	6-16	18.89	8.49	10.4	7.50	11.39	7.35	11.54	7.85	11.04	7.99	10.9	7.11	11.78	--	--	7.04	11.85
MW-103	6-16	19.47	11.87	7.6	10.73	8.74	10.57	8.9	11.07	8.4	11.34	8.13	10.47	9.00	--	--	10.39	9.08
MW-104	5-15	17.67	9.72	7.95	8.71	8.96	7.98	9.69	8.84	8.83	9.38	8.29	8.52	9.15	--	--	9.28	8.39
MW-105	19-29	38.84	21.8	17.04	20.9	17.94	20.65	18.19	21.4	17.44	21.8	17.04	19.84	19.00	--	--	20.63	18.21
MW-106	9 - 19	26.33	11.64	14.69	11.6	14.73	11.49	14.84	overflowing	--	overflowing	--	11.16	15.17	--	--	11.39	14.94
MW-107	2 - 12	14.63	4.49	10.14	4.5	10.13	4.47	10.16	overflowing	--	overflowing	--	4.31	10.32	--	--	4.43	10.2
MW-108	2 - 12	12.74	4.71	8.03	3.4	9.34	3.73	9.01	4.37	8.37	4.66	8.08	3.86	8.88	--	--	3.56	9.18
MW-109	3 - 13	24.12	11.73	12.39	10.43	13.69	10.4	13.72	11.11	13.01	--	--	9.88	14.24	--	--	10.10	14.02
MW-110	3 - 13	15.58	--	--	1.45	14.13	1.1	14.48	2.88	12.7	2.42	13.16	1.39	14.19	--	--	1.67	13.91
MW-111	4 - 14	18.95	11.37	7.58	10.55	8.4	10.56	8.39	10.67	8.28	10.41	8.54	10.57	8.38	--	--	10.62	8.33
MW-112	3 - 10	18.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-112a	4-19	17.78	13.01	4.77	12.78	5.0	12.63	5.15	12.78	5.0	12.58	5.2	12.62	5.16	12.31	5.47	12.14	5.64
MW-113	10-20	26.16	11.99	14.17	11.41	14.75	11.23	14.93	11.56	14.6	11.73	14.43	10.93	15.23	--	--	11.00	15.16
MW-114	7-17	29.43	13.19	16.24	11.25	18.18	10.97	18.46	12.04	17.39	--	--	10.24	19.19	--	--	10.46	18.97
MW-115	10-25	27.15	17.8	9.35	16.35	10.8	15.4	11.75	16.58	10.57	17.4	9.75	16.43	10.72	--	--	16.22	10.93
MW-116	5-15	13.45	--	--	8.94	--	8.87	4.58	8.97	4.48	8.76	4.69	8.85	4.6	--	--	8.32	5.13
MW-117S	5 - 20	21.94	14.67	7.27	14.02	7.92	14.38	7.56	14.66	7.28	14.75	7.19	13.32	8.62	--	--	14.06	7.88
MW-117T	35 - 45	21.87	15.26	6.61	14.45	7.42	14.43	7.44	15.03	6.84	15.26	6.61	13.56	8.31	--	--	14.18	7.69
MW-117D	60 - 70	21.78	15.27	6.51	14.3	7.48	14.26	7.52	14.89	6.89	15.13	6.65	13.48	8.3	--	--	14.01	7.77
MW-118S	3 - 14	15.52	9.05	6.47	8.41	7.11	8.7	6.82	9.43	6.09	9.01	6.51	8.31	7.21	--	--	8.55	6.97
MW-118T	39.5 - 49.5	15.30	10.19	5.11	9.73	5.57	9.64	5.66	9.92	5.38	9.99	5.31	9.49	5.81	--	--	9.33	5.97
MW-118D	70 - 80	15.15	9.99	5.16	9.54	5.61	9.47	5.68	9.74	5.41	9.73	5.42	9.29	5.86	--	--	9.15	6.00
MW-119S	5 - 20	11.74	4.08	7.66	4.41	7.33	4.21	7.53	4.47	7.27	4.33	7.41	4.33	7.41	--	--	4.08	7.66
MW-119T	42 - 47	11.67	6.78	4.89	5.85	5.82	5.8	5.87	6.04	5.63	6.01	5.66	5.68	5.99	--	--	5.55	6.12
MW-120S	5 - 20	12.54	4.01	8.53	4.03	8.51	3.85	8.69	4.31	8.23	3.58	8.96	3.98	8.56	--	--	3.65	8.89
MW-120D	28 - 38	12.45	3.32	9.13	3.18	9.27	3.11	9.34	3.31	9.14	3.29	9.16	3.04	9.41	--	--	3.18	9.27
MW-121S	5 - 20	12.44	9.01	3.43	7.68	4.76	7.57	4.87	7.62	4.82	7.71	4.73	7.67	4.77	--	--	7.12	5.32
MW-121D	32 - 47	12.81	9.64	3.17	7.07	5.74	6.98	5.83	7.27	5.54	7.37	5.44	6.87	5.94	--	--	6.77	6.04
MW-122	4 - 16	16.42	11.42	5.0	13.15	3.27	13.16	3.26	13.14	3.28	13.12	3.3	13.09	3.33	13.04	3.38	13.06	3.36
GEO-1	5 - 20	25.88	12.14	13.74	11.26	14.62	11.07	14.81	11.31	14.57	11.54	14.34	17.06	8.82	--	--	10.92	14.96
GEO-2	5 - 20	26.54	11.58	14.96	11.88	14.66	11.7	14.84	11.99	14.55	12.25	14.29	11.41	15.13	--	--	10.55	15.99
GEO-3	5 - 20	25.64	--	--	--	--	10.86	14.78	11.48	14.16	11.79	13.85	10.27	15.37	--	--	10.62	15.02
GEO-4	4 - 19	21.69	11.89	9.8	10.56	11.13	10.21	11.48	11.00	10.69	--	--	10.26	11.43	--	--	--	--
GEO-5	5 - 20	20.14	11.79	8.35	9.70	10.44	9.30	10.84	10.08	10.06	10.44	9.7	9.48	10.66	--	--	9.18	10.96
GEO-6	5 - 20	17.62	10.95	6.67	8.02	9.6	7.48	10.14	8.18	9.44	8.66	8.96	7.62	10	--	--	7.63	9.99
SH-1	9 - 14	29.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-2	7 - 14	29.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-3	8 - 13	29.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-4	11 - 16	29.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-5	8 - 13	29.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW1	10 - 30	24.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW2	10 - 25	24.27	12.01	12.26	12.63	11.64	12.33	11.94	12.77	11.5	13.01	11.26	10.61	13.66	--	--	12.29	11.98
SH-MW3	10 - 24	22.31	12.49	9.82	10.87	11.44	10.52	11.79	11.12	11.19	11.46	10.85	12.39	9.92	--	--	10.46	11.85
MW201	11-21	27.51	14.64	12.87	13.27	14.24	12.69	14.82	12.94	14.57	13.09	14.42	12.42	15.09	--	--	12.57	14.94
MW202	10.5-20.5	27.82	13.29	14.53	12.82	15	13.15	14.67	13.33	14.49	13.55	14.27	12.94	14.88	--	--	13.02	14.80
MW203	6-18	21.80	13.02	8.78	12.25	9.55	11.5	10.3	12.29	9.51	12.77	9.03	12.03	9.77	--	--	11.83	9.97

General Notes:
1. ft = feet.
2. bgs = below ground surface.
3. ID = identification.
4 GW = groundwater.
5. NAVD = North American Vertical Datum of 1988.
6. The top of the PVC riser was used as the measuring point for depth to groundwater.
7. "--" = Well not yet installed, abandoned, or not measured.

Table 9-1. Groundwater Elevations
Phase V Status Report No. 24 and Remedial Monitoring Report No. 39
50 Tufts Street
Somerville, Massachusetts

		Gauging Date:	11/16/11		4/16/12		11/12/12		4/23/13		11/18/13		4/30/14		6/11/14		11/18/14	
Monitoring Well ID	Well Screen Interval (ft bgs)	Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	unknown	25.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	unknown	25.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-101	9-19	26.75	--	--	12.71	14.04	--	--	12.41	14.34	--	--	12.03	14.72	--	--	--	--
MW-102	6-16	18.89	--	--	8.53	10.36	--	--	8.01	10.88	--	--	7.68	11.21	--	--	--	--
MW-103	6-16	19.47	--	--	11.79	7.68	--	--	11.22	8.25	--	--	10.96	8.51	--	--	--	--
MW-104	5-15	17.67	--	--	10.24	7.43	--	--	9.64	8.03	--	--	9.5	8.17	--	--	--	--
MW-105	19-29	38.84	--	--	--	--	--	--	21.31	17.53	--	--	--	--	--	--	--	--
MW-106	9 - 19	26.33	--	--	--	--	--	--	--	--	--	--	11.71	14.62	--	--	--	--
MW-107	2 - 12	14.63	--	--	--	--	--	--	--	--	--	--	3.61	11.02	--	--	--	--
MW-108	2 - 12	12.74	--	--	4.72	8.02	--	--	4.34	8.4	--	--	4.09	8.65	--	--	--	--
MW-109	3 - 13	24.12	--	--	12.15	11.97	--	--	11.37	12.75	--	--	10.79	13.33	--	--	--	--
MW-110	3 - 13	15.58	--	--	--	--	--	--	--	--	--	--	2.61	12.97	--	--	--	--
MW-111	4 - 14	18.95	--	--	11.6	7.35	--	--	11.01	7.94	--	--	10.96	7.99	--	--	--	--
MW-112	3 - 10	18.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-112a	4-19	17.78	12.30	5.48	12.70	5.08	12.72	5.06	12.80	4.98	13.11	4.67	--	--	12.86	4.92	12.39	5.39
MW-113	10-20	26.16	--	--	12.11	14.05	--	--	11.73	14.43	--	--	11.42	14.74	--	--	--	--
MW-114	7-17	29.43	--	--	13.70	15.73	--	--	12.24	17.19	--	--	12.05	17.38	--	--	--	--
MW-115	10-25	27.15	--	--	18.51	8.64	--	--	17.76	9.39	--	--	17.51	9.64	--	--	--	--
MW-116	5-15	13.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-117S	5 - 20	21.94	--	--	9.06	12.88	--	--	14.39	7.55	--	--	13.63	8.31	--	--	--	--
MW-117T	35 - 45	21.87	--	--	15.58	6.29	--	--	15.19	6.68	--	--	14.78	7.09	--	--	--	--
MW-117D	60 - 70	21.78	--	--	15.81	5.97	--	--	15.09	6.69	--	--	14.71	7.07	--	--	--	--
MW-118S	3 - 14	15.52	--	--	9.66	5.86	--	--	9.41	6.11	--	--	9.01	6.51	--	--	--	--
MW-118T	39.5 - 49.5	15.30	--	--	10.30	5	--	--	10.12	5.18	--	--	9.94	5.36	--	--	--	--
MW-118D	70 - 80	15.15	--	--	10.11	5.04	10.03	5.12	10.00	5.15	10.73	4.42	9.82	5.33	--	--	10.20	4.95
MW-119S	5 - 20	11.74	--	--	5.14	6.6	--	--	4.70	7.04	--	--	4.31	7.43	--	--	--	--
MW-119T	42 - 47	11.67	--	--	6.50	5.17	--	--	6.25	5.42	--	--	6.11	5.56	--	--	--	--
MW-120S	5 - 20	12.54	--	--	4.78	7.76	--	--	4.26	8.28	--	--	4.19	8.35	--	--	--	--
MW-120D	28 - 38	12.45	--	--	3.87	8.58	--	--	3.40	9.05	--	--	4.41	8.04	--	--	--	--
MW-121S	5 - 20	12.44	--	--	7.26	5.18	--	--	6.93	5.51	--	--	5.95	6.49	--	--	--	--
MW-121D	32 - 47	12.81	--	--	7.69	5.12	7.55	5.26	7.41	5.4	8.13	4.68	7.35	5.46	--	--	7.27	5.54
MW-122	4 - 16	16.42	13.16	3.26	13.1	3.32	13.16	3.26	13.14	3.28	13.12	3.3	13.12	3.30	--	--	13.04	3.38
GEO-1	5 - 20	25.88	--	--	--	--	--	--	11.50	14.38	--	--	11.19	14.69	--	--	--	--
GEO-2	5 - 20	26.54	--	--	11.81	14.73	--	--	12.19	14.35	--	--	11.99	14.55	--	--	--	--
GEO-3	5 - 20	25.64	--	--	12.21	13.43	--	--	11.57	14.07	--	--	11.10	14.54	--	--	--	--
GEO-4	4 - 19	21.69	--	--	11.98	9.71	--	--	11.29	10.4	--	--	11.09	10.6	--	--	--	--
GEO-5	5 - 20	20.14	--	--	11.18	8.96	--	--	10.45	9.69	--	--	10.25	9.89	--	--	--	--
GEO-6	5 - 20	17.62	--	--	9.54	8.08	--	--	8.56	9.06	--	--	8.30	9.32	--	--	--	--
SH-1	9 - 14	29.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-2	7 - 14	29.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-3	8 - 13	29.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-4	11 - 16	29.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-5	8 - 13	29.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW1	10 - 30	24.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW2	10 - 25	24.27	--	--	13.53	10.74	--	--	13.13	11.14	--	--	12.95	11.32	--	--	--	--
SH-MW3	10 - 24	22.31	--	--	12.00	10.31	--	--	11.43	10.88	--	--	11.23	11.08	--	--	--	--
MW201	11-21	27.51	--	--	13.43	14.08	--	--	13.15	14.36	--	--	12.97	14.54	--	--	--	--
MW202	10.5-20.5	27.82	--	--	--	--	--	--	13.54	14.28	--	--	13.32	14.50	--	--	--	--
MW203	6-18	21.80	--	--	13.85	7.95	--	--	13.15	8.65	--	--	12.92	8.88	--	--	--	--

General Notes:
1. ft = feet.
2. bgs = below ground surface.
3. ID = identification.
4 GW = groundwater.
5. NAVD = North American Vertical Datum of 1988.
6. The top of the PVC riser was used as the measuring point for depth to groundwater.
7. "--" = Well not yet installed, abandoned, or not measured.

Table 9-1. Groundwater Elevations
Phase V Status Report No. 24 and Remedial Monitoring Report No. 39
50 Tufts Street
Somerville, Massachusetts

		Gauging Date:	4/1/15		4/17/15		11/19/15		4/27/16		11/21/16		4/14/17		11/8/17		1/31/18	
Monitoring Well ID	Well Screen Interval (ft bgs)	Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	unknown	25.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	unknown	25.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-101	9-19	26.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-102	6-16	18.89	6.99	11.9	--	--	--	--	8.02	10.87	--	--	--	--	--	--	7.94	10.95
MW-103	6-16	19.47	10.43	9.04	--	--	--	--	11.49	7.98	--	--	--	--	--	--	11.12	8.35
MW-104	5-15	17.67	8.04	9.63	--	--	--	--	10.63	7.04	--	--	9.05	8.62	--	--	11.99	5.68
MW-105	19-29	38.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-106	9 - 19	26.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-107	2 - 12	14.63	--	--	--	--	--	--	4.49	10.14	--	--	4.51	10.12	--	--	4.56	10.07
MW-108	2 - 12	12.74	3.31	9.43	--	--	--	--	4.11	8.63	--	--	3.78	8.96	--	--	4.02	8.72
MW-109	3 - 13	24.12	9.61	14.51	--	--	--	--	11.25	12.87	--	--	9.86	14.26	--	--	11.02	13.10
MW-110	3 - 13	15.58	0.60	14.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111	4 - 14	18.95	10.80	8.15	--	--	--	--	11.50	7.45	--	--	Dry	Dry	--	--	Dry	Dry
MW-112	3 - 10	18.16	--	--	--	--	--	--	--	--	--	--	6.44	11.72	--	--	--	--
MW-112a	4-19	17.78	--	--	12.86	4.92	--	--	11.14	6.64	13.12	4.66	12.88	4.90	15.32	2.46	12.85	4.93
MW-113	10-20	26.16	10.64	15.52	--	--	--	--	11.65	14.51	--	--	10.83	15.33	--	--	13.90	12.26
MW-114	7-17	29.43	10.06	19.37	--	--	--	--	12.45	16.98	--	--	10.70	18.73	--	--	12.89	16.54
MW-115	10-25	27.15	16.50	10.65	--	--	--	--	18.23	8.92	--	--	17.33	9.82	--	--	18.17	8.98
MW-116	5-15	13.45	--	--	--	--	--	--	9.34	4.11	--	--	9.18	4.27	--	--	9.22	4.23
MW-117S	5 - 20	21.94	9.66	12.28	--	--	--	--	14.09	7.85	--	--	12.49	9.45	--	--	16.65	5.29
MW-117T	35 - 45	21.87	13.95	7.92	--	--	--	--	15.59	6.28	--	--	14.36	7.51	--	--	17.76	4.11
MW-117D	60 - 70	21.78	13.88	7.90	--	--	--	--	--	--	--	--	12.93	8.85	--	--	12.11	9.67
MW-118S	3 - 14	15.52	8.04	7.48	--	--	--	--	9.30	6.22	--	--	8.37	7.15	--	--	12.17	3.35
MW-118T	39.5 - 49.5	15.30	9.63	5.67	--	--	--	--	10.37	4.93	--	--	9.80	5.5	--	--	12.45	2.85
MW-118D	70 - 80	15.15	9.47	5.68	--	--	11.99	3.16	10.20	4.95	10.42	4.73	9.61	5.54	10.27	4.88	--	--
MW-119S	5 - 20	11.74	4.16	7.58	--	--	--	--	4.64	7.10	--	--	4.43	7.31	--	--	--	--
MW-119T	42 - 47	11.67	5.80	5.87	--	--	--	--	6.43	5.24	--	--	5.95	5.72	--	--	--	--
MW-120S	5 - 20	12.54	3.54	9.00	--	--	--	--	3.16	9.38	--	--	3.91	8.63	--	--	5.72	6.82
MW-120D	28 - 38	12.45	3.10	9.35	--	--	--	--	3.68	8.77	--	--	3.19	9.26	--	--	6.30	6.15
MW-121S	5 - 20	12.44	6.77	5.67	--	--	--	--	--	--	--	--	7.73	4.71	--	--	7.76	4.68
MW-121D	32 - 47	12.81	7.01	5.80	--	--	8.83	3.98	--	--	7.85	4.96	7.17	5.64	7.75	5.06	7.50	5.31
MW-122	4 - 16	16.42	13.15	3.27	--	--	13.23	3.19	13.19	3.23	13.21	3.21	13.18	3.24	13.17	3.25	13.19	3.23
GEO-1	5 - 20	25.88	10.69	15.19	--	--	--	--	11.39	14.49	--	--	10.75	15.13	--	--	--	--
GEO-2	5 - 20	26.54	11.34	15.20	--	--	--	--	12.18	14.36	--	--	11.51	15.03	--	--	--	--
GEO-3	5 - 20	25.64	9.92	15.72	--	--	--	--	--	--	--	--	10.25	15.39	--	--	11.40	14.24
GEO-4	4 - 19	21.69	10.17	11.52	--	--	--	--	11.61	10.08	--	--	10.59	11.1	--	--	11.20	10.49
GEO-5	5 - 20	20.14	9.29	10.85	--	--	--	--	10.94	9.20	--	--	9.81	10.33	--	--	10.44	9.70
GEO-6	5 - 20	17.62	7.84	9.78	--	--	--	--	9.72	7.90	--	--	8.42	9.2	--	--	9.12	8.50
SH-1	9 - 14	29.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-2	7 - 14	29.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-3	8 - 13	29.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-4	11 - 16	29.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-5	8 - 13	29.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW1	10 - 30	24.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW2	10 - 25	24.27	12.41	11.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW3	10 - 24	22.31	10.55	11.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW201	11-21	27.51	12.40	15.11	--	--	--	--	13.15	14.36	--	--	--	--	--	--	15.36	12.15
MW202	10.5-20.5	27.82	12.93	14.89	--	--	--	--	13.53	14.29	--	--	--	--	--	--	15.77	12.05
MW203	6-18	21.80	12.05	9.75	--	--	--	--	13.93	7.87	--	--	--	--	--	--	15.76	6.04

General Notes:
1. ft = feet.
2. bgs = below ground surface.
3. ID = identification.
4 GW = groundwater.
5. NAVD = North American Vertical Datum of 1988.
6. The top of the PVC riser was used as the measuring point for depth to groundwater.
7. "--" = Well not yet installed, abandoned, or not measured.

Table 9-1. Groundwater Elevations
Phase V Status Report No. 24 and Remedial Monitoring Report No. 39
50 Tufts Street
Somerville, Massachusetts

		Gauging Date:	4/2/18		11/15/18		4/15/19		11/22/19		4/13/20		11/18/20		4/12/21		11/30/21	
Monitoring Well ID	Well Screen Interval (ft bgs)	Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	unknown	25.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	unknown	25.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-101	9-19	26.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-102	6-16	18.89	7.58	11.31	--	--	7.21	11.68	--	--	7.37	11.52	--	--	8.13	10.76	--	--
MW-103	6-16	19.47	10.81	8.66	--	--	7.26	12.21	--	--	10.70	8.77	--	--	11.90	7.57	--	--
MW-104	5-15	17.67	9.21	8.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-105	19-29	38.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-106	9 - 19	26.33	--	--	--	--	--	--	--	--	--	--	--	--	NM- Flooded	--	--	--
MW-107	2 - 12	14.63	4.51	10.12	--	--	4.74	9.89	--	--	4.42	10.21	--	--	4.48	10.15	--	--
MW-108	2 - 12	12.74	4.05	8.69	--	--	3.95	8.79	--	--	3.86	8.88	--	--	4.05	8.69	--	--
MW-109	3 - 13	24.12	10.51	13.61	--	--	10.62	13.5	--	--	10.41	13.71	--	--	11.31	12.81	--	--
MW-110	3 - 13	15.58	--	--	--	--	--	--	--	--	--	--	--	--	1.99	13.59	--	--
MW-111	4 - 14	18.95	NF	NF	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-112	3 - 10	18.16	--	--	--	--	5.05	13.11	--	--	6.75	11.41	--	--	8.06	10.1	--	--
MW-112a	4-19	17.78	--	--	13.09	4.69	12.3	5.48	13.00	4.78	12.75	5.03	13.08	4.70	13.05	4.73	12.80	4.98
MW-113	10-20	26.16	11.35	14.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114	7-17	29.43	11.29	18.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-115	10-25	27.15	17.66	9.49	--	--	16.96	10.19	--	--	17.89	9.26	--	--	19.4	7.75	--	--
MW-116	5-15	13.45	9.14	4.31	--	--	8.35	5.1	--	--	9.17	4.28	--	--	9.51	3.94	--	--
MW-117S	5 - 20	21.94	13.07	8.87	--	--	9.19	12.75	--	--	12.69	9.25	--	--	13.51	8.43	--	--
MW-117T	35 - 45	21.87	14.75	7.12	--	--	14.46	7.41	--	--	16.06	5.81	--	--	16.35	5.52	--	--
MW-117D	60 - 70	21.78	13.5	8.28	--	--	11.76	10.02	--	--	10.11	11.67	--	--	16.31	5.47	--	--
MW-118S	3 - 14	15.52	8.75	6.77	--	--	9.84	5.68	--	--	8.85	6.67	--	--	8.95	6.57	--	--
MW-118T	39.5 - 49.5	15.30	9.96	5.34	--	--	9.52	5.78	--	--	10.24	5.06	--	--	10.77	4.53	--	--
MW-118D	70 - 80	15.15	9.74	5.41	9.23	5.92	9.31	5.84	10.49	4.66	10.09	5.06	10.65	4.5	10.59	4.56	10.55	4.6
MW-119S	5 - 20	11.74	4.56	7.18	--	--	4.05	7.69	--	--	3.49	8.25	--	--	4.20	7.54	--	--
MW-119T	42 - 47	11.67	6.12	5.55	--	--	5.86	5.81	--	--	6.20	5.47	--	--	6.85	4.82	--	--
MW-120S	5 - 20	12.54	3.97	8.57	--	--	3.85	8.69	--	--	3.35	9.19	--	--	4.30	8.24	--	--
MW-120D	28 - 38	12.45	3.41	9.04	--	--	3.21	9.24	--	--	3.93	8.52	--	--	3.81	8.64	--	--
MW-121S	5 - 20	12.44	7.32	5.12	--	--	6.8	5.64	--	--	7.72	4.72	--	--	7.73	4.71	--	--
MW-121D	32 - 47	12.81	7.74	5.07	6.79	6.02	6.94	5.87	7.66	5.15	7.40	5.41	8	4.81	8.05	4.76	8.15	4.66
MW-122	4 - 16	16.42	13.13	3.29	13.17	3.25	12.81	3.61	13.15	3.27	13.01	3.41	13.11	3.31	13.02	3.4	13.1	3.32
GEO-1	5 - 20	25.88	11.11	14.77	--	--	11.1	14.78	--	--	10.40	15.48	--	--	11.01	14.87	--	--
GEO-2	5 - 20	26.54	11.83	14.71	--	--	12.98	13.56	--	--	11.11	15.43	--	--	12.26	14.28	--	--
GEO-3	5 - 20	25.64	10.79	14.85	--	--	11.06	14.58	--	--	10.36	15.28	--	--	ND-Bott at 11.15	--	--	--
GEO-4	4 - 19	21.69	11.20	10.49	--	--	10.72	10.97	--	--	11.41	10.28	--	--	12.41	9.28	--	--
GEO-5	5 - 20	20.14	10.2	9.94	--	--	7.55	12.59	--	--	11.32	8.82	--	--	12.26	7.88	--	--
GEO-6	5 - 20	17.62	8.67	8.95	--	--	8.23	9.39	--	--	11.62	6	--	--	12.21	5.41	--	--
SH-1	9 - 14	29.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-2	7 - 14	29.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-3	8 - 13	29.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-4	11 - 16	29.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-5	8 - 13	29.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW1	10 - 30	24.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW2	10 - 25	24.27	12.84	11.43	--	--	12.55	11.72	--	--	--	--	--	--	--	--	--	--
SH-MW3	10 - 24	22.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW201	11-21	27.51	13.34	14.17	--	--	12.92	14.59	--	--	12.00	15.51	--	--	12.69	14.82	--	--
MW202	10.5-20.5	27.82	12.86	14.96	--	--	13.3	14.52	--	--	12.31	15.51	--	--	12.99	14.83	--	--
MW203	6-18	21.80	12.98	8.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--

General Notes:
1. ft = feet.
2. bgs = below ground surface.
3. ID = identification.
4 GW = groundwater.
5. NAVD = North American Vertical Datum of 1988.
6. The top of the PVC riser was used as the measuring point for depth to groundwater.
7. "--" = Well not yet installed, abandoned, or not measured.

Table 9-1. Groundwater Elevations
Phase V Status Report No. 24 and Remedial Monitoring Report No. 39
50 Tufts Street
Somerville, Massachusetts

		Gauging Date:	4/12/22		11/29/22		4/17/23	
Monitoring Well ID	Well Screen Interval (ft bgs)	Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.90	--	--	--	--	--	--
MW-2	unknown	25.38	--	--	--	--	--	--
MW-3	unknown	25.31	--	--	--	--	--	--
MW-101	9-19	26.75	--	--	--	--	--	--
MW-102	6-16	18.89	--	--	--	--	8.18	10.71
MW-103	6-16	19.47	--	--	--	--	--	--
MW-104	5-15	17.67	--	--	--	--	--	--
MW-105	19-29	38.84	--	--	--	--	--	--
MW-106	9 - 19	26.33	--	--	--	--	--	--
MW-107	2 - 12	14.63	--	--	--	--	4.43	10.2
MW-108	2 - 12	12.74	--	--	--	--	4.34	8.4
MW-109	3 - 13	24.12	--	--	--	--	11.49	12.63
MW-110	3 - 13	15.58	--	--	--	--	2.5	13.08
MW-111	4 - 14	18.95	--	--	--	--	--	--
MW-112	3 - 10	18.16	--	--	--	--	--	--
MW-112a	4-19	17.78	12.55	5.23	12.81	4.97	12.67	5.11
MW-113	10-20	26.16	--	--	--	--	--	--
MW-114	7-17	29.43	--	--	--	--	--	--
MW-115	10-25	27.15	--	--	--	--	19.61	7.54
MW-116	5-15	13.45	9	4.45	--	--	9.03	4.42
MW-117S	5 - 20	21.94	12.8	9.14	--	--	11.19	10.75
MW-117T	35 - 45	21.87	16	5.87	--	--	16.1	5.77
MW-117D	60 - 70	21.78	15.6	6.18	--	--	16.07	5.71
MW-118S	3 - 14	15.52	9.1	6.42	--	--	9.17	6.35
MW-118T	39.5 - 49.5	15.30	10.6	4.7	--	--	10.6	4.7
MW-118D	70 - 80	15.15	10.2	4.95	10.97	4.18	10.5	4.65
MW-119S	5 - 20	11.74	4.05	7.69	--	--	5.1	6.64
MW-119T	42 - 47	11.67	6.7	4.97	--	--	6.73	4.94
MW-120S	5 - 20	12.54	5	7.54	--	--	4.31	8.23
MW-120D	28 - 38	12.45	4.5	7.95	--	--	3.81	8.64
MW-121S	5 - 20	12.44	8	4.44	--	--	7.58	4.86
MW-121D	32 - 47	12.81	7.7	5.11	8.40	4.41	8.05	4.76
MW-122	4 - 16	16.42	12.9	3.52	13.15	3.27	13.1	3.32
GEO-1	5 - 20	25.88	10.85	15.03	--	--	11.16	14.72
GEO-2	5 - 20	26.54	12.2	14.34	--	--	12.1	14.44
GEO-3	5 - 20	25.64	--	--	--	--	--	--
GEO-4	4 - 19	21.69	--	--	--	--	12.83	8.86
GEO-5	5 - 20	20.14	--	--	--	--	12.79	7.35
GEO-6	5 - 20	17.62	--	--	--	--	12.75	4.87
SH-1	9 - 14	29.55	--	--	--	--	--	--
SH-2	7 - 14	29.64	--	--	--	--	--	--
SH-3	8 - 13	29.66	--	--	--	--	--	--
SH-4	11 - 16	29.63	--	--	--	--	--	--
SH-5	8 - 13	29.63	--	--	--	--	--	--
SH-MW1	10 - 30	24.02	--	--	--	--	--	--
SH-MW2	10 - 25	24.27	--	--	--	--	--	--
SH-MW3	10 - 24	22.31	--	--	--	--	--	--
MW201	11-21	27.51	--	--	--	--	13.84	13.67
MW202	10.5-20.5	27.82	12.9	14.92	--	--	13.2	14.62
MW203	6-18	21.80	--	--	--	--	--	--

General Notes:
1. ft = feet.
2. bgs = below ground surface.
3. ID = identification.
4 GW = groundwater.
5. NAVD = North American Vertical Datum of 1988.
6. The top of the PVC riser was used as the measuring point for depth to groundwater.
7. "--" = Well not yet installed, abandoned, or not measured.

Table 4-2. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 24 and Remedial Monitoring Report No. 39
50 Tufts Street
Somerville, Massachusetts

Sample Location:			GEO-2																				GEO-3							GEO-4					
Sample Name:			GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	GEO-2	MW901 (FD)	GEO-2	GEO-2	MW901 (FD)	GEO-2	MW901 (FD)	GEO-2	MW901 (FD)	GEO-2	MW901	GEO-2	MW901	GEO-2	MW901	GEO-3	GEO-3	MW900 (FD)	GEO-3	MW900 (FD)	GEO-3	GEO3	GEO-4	GEO-4	GEO-4	GEO-4	GEO4
Well Screen Interval (ft bgs):			5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19
Sample Date:			10/14/09	4/13/10	4/21/11	5/1/13	4/30/14	4/2/15	4/29/16	4/29/16	4/18/17	4/4/18	4/4/2018	4/16/2019	4/16/2019	4/17/2020	4/17/2020	4/14/2021	4/14/2021	4/14/2022	4/14/2022	4/18/2023	4/18/2023	8/16/04	5/24/06	5/24/06	10/4/06	10/4/06	1/16/07	4/13/07	8/16/04	5/24/06	10/4/06	1/16/07	4/16/07
Collected By:			GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GeoInsight	GEI	GEI	GEI	GEI
Analyte	**Method**	**Units**																																	
Volatile Organic Compounds (VOCs)																																			
Acetone	8260	µg/l	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 1000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2000	< 5.0	< 5.0	< 100	< 50
Benzene			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 100	< 0.50	< 0.50	< 10	< 5.0
Bromodichloromethane			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
2-Butanone (MEK)			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<10	<10	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1000	< 5.0	< 5.0	< 100	< 50
Carbon disulfide			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 50
Carbon tetrachloride			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
Chlorobenzene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
Chloroethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 100	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 200	< 2.0	< 2.0	< 40	< 20
Chloroform			0.84 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.56 J	0.76 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	2.5	< 20	< 10
Chloromethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 100	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 200	< 2.0	< 2.0	< 40	< 20
1,4-Dichlorobenzene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
1,1-Dichloroethane			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	11.6	11.6	2.6	< 1.0	< 100	2.7	7.1	< 20	< 10
1,2-Dichloroethane			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
1,1-Dichloroethylene			10.8	13.8	3.7	7.8	3.8	3.1	4.3	4.9	1.5	1.1	1.1	<1.0	<1.0	2.3	2.6	1.7	1.8	2.6	2.3	3.3	2.7	108	< 1.0	< 1.0	59.3	59.1	11.5	1.4	< 100	6.1	17.8	< 20	< 10
cis-1,2-Dichloroethylene			< 1.0	3.1	2.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	2.8	2.6	1.2	< 1.0	< 100	6.3	16.7	< 20	5.5 J
trans-1,2-Dichloroethylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
1,2-Dichloropropane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 100	< 2.0	< 2.0	< 40	< 20
1,4-Dioxane			< 25	< 25	< 25	< 25	< 25 K-	< 25	< 25	< 25	<130	<130	<130	<130	<130	<250	<250	<250	<250	<250	<250	<250	<250	NT	< 25	< 25	< 25 R	< 25 R	< 25	< 25	NT	< 25	< 25 R	< 5.0	< 250
Ethylbenzene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
2-Hexanone			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1000	< 5.0	< 5.0	< 100	< 50
4-Isopropyltoluene			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50
Methyl tert-butyl ether			0.56 J	< 1.0	< 1.0	4.5	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 1.0	< 1.0	1.2 J+	1.1 J+	< 1.0	< 1.0	< 100	< 1.0	1.5 J+	< 20	< 10
Methylene chloride			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 2.0	< 2.0	< 5.0	< 2.0	< 5.0	< 2.0	< 1000	< 2.0	< 2.0	< 40	< 20
Naphthalene			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50
Tert-amyl methyl ether			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 40	< 20
1,1,1,2-Tetrachloroethane			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	0.84 J	< 100	< 50
Tetrachloroethylene (PCE)			167	480	66.4	140	119	76.3	147	145	50.7	48.5	45.4	26.3	25.6	120	130	86	86	96	84	120	120	4020	162	157	2720	2340	529	93.2	12900	6690	24100	16700	8240
Tetrahydrofuran			< 10	< 10	< 10	< 10	< 10 G	< 10	< 10	< 10	<10	<10	<10	<10	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NT	< 10	< 10	< 10	< 10	< 10	< 10	NT	< 10	< 10	< 200	< 100
Toluene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	1.8	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
1,1,1-Trichloroethane (TCA)			37.5 J+	61.9	4.3	16.0	15.5	11.4	18.4	20.4	5.2	3.7	3.6	1.1	1.1	9.2	9.5	11	11	17	16	19	16	204	4.0	4.4	78.2 J+	77.2 J+	16.2	< 1.0	1170	113	321 J+	113	70.9
1,1,2-Trichloroethane			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
Trichloroethylene (TCE)			33.4	103	14.7	14.3	12.2	9.9	12.7	12.8	7.1	6.1	6.0	4.4	4.2	6.1	6.4	3.8	3.8	4.2	4.0	7.8	6.8	507	14.4	14.1	209	207	70.2	10.0	720	86.8	235	129	74.8
Vinyl chloride			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
m,p-Xylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 1.0	< 1.0	< 20	< 10
o-Xylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
Total Xylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	ND	< 1.0	< 1.0	< 20	< 10
Metals (Total)	6010B	µg/l	NT							NT			NT		NT		NT		NT		NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic				NT	NT	NT	NT	NT	NT		NT	NT		NT		NT		NT		NT		NT													
Iron				< 100 J+	< 100	< 100	NT	NT	NT		NT	NT		NT		NT		NT		NT		NT													
Manganese				< 15	< 15	< 15	< 15	< 15	< 15		<15	<15		<15		<10		<10		<10		<10													
Metals (Dissolved)	6010C	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron																																			
Others			NT							NT			NT		NT		NT		NT		NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methane	8015	µg/l		1.58	< 0.30	< 0.30	< 10	< 10	< 10		<10	<0.11		0.14		<1.0		<2.00		<2.00		<2.00														
Ethane	8015	µg/l		< 0.10	< 0.10	< 0.10	< 10	< 10	< 10		<10	<0.23		<0.23		<0.5		<0.500		<0.500		<0.500														
Ethylene	8015	µg/l		< 0.10	< 0.10	< 0.10	< 10	< 10	< 10		<10	<0.31		<0.31		<0.5		<0.500		<0.500		<0.500														
Alkalinity	E310.1	µg/l		44100	50400	64600	69000	48400	50300		34000	32800		221000		28500		28,300		43,400		27,000														
Chloride	E325.3	µg/l		165000	53700	252000	175000	220000	290000		287000	254000		198000		420000		270,000		38,000		270,000														
Chlorine, Total Residual	E330.4	µg/l		< 50 A	< 50	< 50	< 50 A	< 50 A				1130		<100		<20		<20		<20		<20														
Iron, Ferrous	3500FE B	µg/l		NT	NT	NT	< 100	< 100	< 100		<100	<200		<200		<500		<500		<500		<500														
Nitrate & Nitrite as N	E353.2	µg/l		6700	4400	3300	1700	1600	1500		1700	2300		1700		630		1,400		770		3,000														
Nitrogen, Nitrate	E353.2	µg/l		6700	4400	3300	1700	1600	1500		1700	2300		1700		629		1,320		755		3,050														
Nitrogen, Nitrite	E354.1	µg/l		< 10	< 10	< 10	< 10	< 10	< 10		<10	<10		<10		<300		<300		564		<300														
Sodium	6010C	µg/l		NT	NT	NT	NT	NT	NT		NT	NT		NT		NT		NT		NT		NT														
Sulfate	E375.4	µg/l		117000	105000	67800	38900	27500	30900		21600	19000		15900		<10000		<10,000		<10,000		12000														
Sulfide	E376.1	µg/l		< 2000	< 2000	< 2000	< 2000	< 2000				<2000		<2000		<100		<100		<100		<100														
Surfactants	E425.1	µg/l		< 100	< 100	< 100	< 100	< 100	< 100		<100	<100		<100		<50		<50		<50		<50														
Total Organic Carbon	E415.1	µg/l		2400	4600	1700	1000	<5000	< 1000		<1000	1000		<1000		<500		<500		570		<500														

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting limit.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-2. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 24 and Remedial Monitoring Report No. 39
50 Tufts Street
Somerville, Massachusetts

Sample Location:			GEO-5					GEO-6							MW-1					MW101					MW102								MW103					
Sample Name:			GEO-5	GEO-5	GEO-5	GEO-5	GEO5	GEO-6	GEO-6	GEO-6	GEO-6	MW900 (FD	GEO6	MW901 (FD)	MW-1	MW-1	MW-1	MW-1	MW1	MW-101	MW101	MW101	MW101	MW900	MW-102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW-103	MW103	MW103	MW103	MW103	MW103
Well Screen Interval (ft bgs):			5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	Unknown	Unknown	Unknown	Unknown	Unknown	9 to 19	9 to 19	9 to 19	9 to 19	9 to 19	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16
Sample Date:			8/16/04	5/24/06	10/4/06	1/16/07	4/16/07	8/16/04	5/24/06	10/4/06	1/16/07	1/16/07	4/16/07	4/16/07	7/1/02	8/9/04	5/23/06	1/17/07	4/17/07	5/24/06	10/5/06	1/17/07	4/13/07	4/13/07	5/24/06	10/5/06	1/16/07	4/13/07	7/18/07	10/10/07	1/10/08	4/17/08	5/24/06	8/7/06	10/5/06	1/16/07	1/18/07	4/13/07
Collected By:			GeoInsight	GEI	GEI	GEI	GEI	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	SHA	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Analyte	**Method**	**Units**																																				
Volatile Organic Compounds (VOCs)																																						
Acetone	8260	µg/l	< 2000	< 5.0	< 5.0	< 250	< 5.0	< 200	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.000	< 40000	40.0	36.1	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25
Benzene			< 100	< 0.50	< 0.50	< 25	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5.00	< 2000	2.0	< 0.50	< 250	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5
Bromodichloromethane			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.00	< 2000	< 1.0	< 1.0	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
2-Butanone (MEK)			< 1000	< 5.0	< 5.0	< 250	< 5.0	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.000	< 4000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25
Carbon disulfide			< 5.0	< 5.0	< 5.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	0.81 J	< 5.0	< 10	< 5.0	< 5.000	< 10000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25
Carbon tetrachloride			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.00	< 2000	19.0	22.4	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
Chlorobenzene			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.00	< 2000	1.1	1.2	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
Chloroethane			< 200	< 2.0	< 2.0	< 100	< 2.0	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 10000	< 4000	< 2.0	< 2.0	< 1000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10
Chloroform			< 100	< 1.0	0.62 J	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 7500	< 2000	3.7	1.6	< 500	1.8	< 1.0	< 1.0	< 1.0	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.65 J	0.62 J	< 5.0
Chloromethane			< 200	< 2.0	< 2.0	< 100	< 2.0	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 25000	< 4000	< 2.0	14.6	< 1000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10
1,4-Dichlorobenzene			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 25000	< 2000	< 1.0	< 1.0	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
1,1-Dichloroethane			< 100	3.0	9.7	< 50	< 1.0	< 10	2.0	4.4	1.7	1.6	0.92 J	1.1	< 7500	< 2000	59.8	59.9	< 500	< 1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0	0.88 J	< 1.0	< 1.0	0.42 J	2.1	4.1	0.51 J	27.2	3.7	13.0	11.5	10.1	7.9
1,2-Dichloroethane			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.00	< 2000	4.0	< 1.0	< 500	< 1.0	< 1.0	< 1.0	3.9 G	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
1,1-Dichloroethylene			< 100	8.9	32.7	< 50	< 1.0	< 10	4.6	11.0	4.4	3.2	2.8	3.8	< 5.00	< 2000	11500	1260	2290	8.7	21.1	14.1	< 1.0	4.6 G	6.3	50.2	30	< 1.0	23.6	39.7	51.8	22.2 C+	13.4	2.0	6.5	4.3	4.3	8.0
cis-1,2-Dichloroethylene			< 100	12.5	35.2	< 50	< 1.0	14.8	9.1	15.4	7.7	6.9	5.3	6.3	< 5.00	< 2000	24.3	7.7	< 500	< 1.0	< 1.0	1.3	< 1.0	2.1 G	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	3.0	2.5	< 1.0	< 1.0	< 5.0
trans-1,2-Dichloroethylene			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 7500	< 2000	< 1.0	< 1.0	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
1,2-Dichloropropane			< 100	< 2.0	< 2.0	< 100	< 2.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 18000	< 2000	4.5	< 2.0	< 1000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10
1,4-Dioxane			NT	< 25	< 25 R	< 1300	< 25	NT	< 25	< 25 R	< 25	< 25	< 5.0	< 25	NT	NT	< 25 R	< 25	< 13000	< 25	< 25 R	< 25	< 25	< 25	< 25	< 25 R	< 25	< 25	NT	< 50	< 25	< 25	< 25	< 25 R	< 25	< 25	< 25	< 130
Ethylbenzene			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.00	< 2000	2.8	4.4	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
2-Hexanone			< 1000	< 5.0	< 5.0	< 250	< 5.0	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.000	< 20000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25
4-Isopropyltoluene			< 100	< 5.0	< 5.0	< 250	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.00	< 2000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25
Methyl tert-butyl ether			< 100	1.3	3.3 J+	< 50	< 1.0	< 10	1.3	1.9 J+	1.2	1.2	0.80 J	0.81 J	< 10000	< 2000	< 1.0 J+	< 1.0	< 500	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	4.5 J+	2.7	< 1.0	NT	17.3	24.2	1.7 C+	< 1.0	< 1.0	0.65 J J+	< 1.0	< 1.0	< 5.0
Methylene chloride			< 1000	< 2.0	< 2.0	< 100	< 2.0	< 100	< 2.0	< 2.0	< 2.0	1.3 J	2.5 J	< 2.0	< 5.000	< 20000	< 2.0	< 2.0	< 1000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	4.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10
Naphthalene			< 100	< 5.0	< 5.0	< 250	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.000	< 2000	< 5.0	2.4 J	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25
Tert-amyl methyl ether			NT	< 2.0	< 2.0	< 100	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	NT	NT	< 2.0	< 2.0	< 1000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10
1,1,1,2-Tetrachloroethane			< 100	< 5.0	< 5.0	< 250	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.00	< 2000	38.1	22.8	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0 F+	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethylene (PCE)			14400	2440	12900	254 F+	17.9	782	675	1980	632	594 F+	618	497	52000	24200	34400	74900	49600	163	171	192	94.0	90.7	200	898	692	20.3	524	685	606	438 C+	2600	592	1510	1200 F+	1250 F-	1510
Tetrahydrofuran			NT	< 10	< 10	< 500	< 10	NT	< 10	< 10	< 10	< 20	< 10	< 10	NT	NT	< 10	< 10	< 5000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NT	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50
Toluene			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 7500	< 2000	19.6	15.3	< 500	< 1.0	< 1.0	0.38 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
1,1,1-Trichloroethane (TCA)			646	246	652	< 50	< 1.0	27.8	42.5	77.2 J+	33.7	25.3	21.2	26.8	290000	112000	255000	135000	151000	110	146	131	50.5 J+	43.0 J+	< 1.0	65.7 J+	32.6	< 1.0	26.3	69.8	121	21.9 C+	34.0	4.4	14.4 J+	17.6	21.0	< 5.0
1,1,2-Trichloroethane			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 7500	< 2000	85.8	16.2	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
Trichloroethylene (TCE)			404	146	446	< 50	< 1.0	122	78.8	131	75.3	56.5	55.5	70.5	220000	128000	175000	120000	103000	50.5	30.2	38.4	47.2	45.7	15.6	89.1	57.0	2.0	46.1	61.0	65.3	35.6 C+	109	24.0	60.4	37.0	38.0	58.7
Vinyl chloride			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 10000	< 2000	< 1.0	1.2	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
m,p-Xylene			< 200	< 1.0	< 1.0	< 50	< 1.0	< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.00	< 4000	4.8	5.9	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
o-Xylene			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.00	< 2000	9.2	13.8	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
Total Xylene			ND	< 1.0	< 1.0	< 50	< 1.0	ND	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	ND	ND	14.0	19.7	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
Metals (Total)	6010B	µg/l	NT	NT	NT	NT	NT	NT	NT	NT			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT			NT
Arsenic											< 10	< 10																									< 10	
Iron											< 100	< 100																									< 100	
Manganese											NT	NT																									NT	
Metals (Dissolved)	6010C	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron																																						
Others			NT	NT	NT	NT	NT	NT	NT	NT			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT			NT
Methane	8015	µg/l									< 10	< 10																									< 10	
Ethane	8015	µg/l									< 10	< 10																									< 10	
Ethylene	8015	µg/l									< 10	< 10																									< 10	
Alkalinity	E310.1	µg/l									134000	133000																									53500	
Chloride	E325.3	µg/l									825000	825000																									675000	
Chlorine, Total Residual	E330.4	µg/l									NT	NT																									NT	
Iron, Ferrous	3500FE B	µg/l									NT	NT																									NT	
Nitrate & Nitrite as N	E353.2	µg/l									3500	3500																									8900	
Nitrogen, Nitrate	E353.2	µg/l									3500	3500																									8900	
Nitrogen, Nitrite	E354.1	µg/l									< 10	< 10																									16	
Sodium	6010C	µg/l									NT	NT																									NT	
Sulfate	E375.4	µg/l									45800	45500																									65700	
Sulfide	E376.1	µg/l									< 2000	< 2000																									< 2000	
Surfactants	E425.1	µg/l									< 100	< 100																									< 100	
Total Organic Carbon	E415.1	µg/l									< 1000	< 1000																									1700	

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting limit.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.

Qualifying Notes:

B The analyte found in associated method blank.
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 4-2. Chemical Testing Results - GEI Groundwater Sampling
Phase V Status Report No. 24 and Remedial Monitoring Report No. 39
50 Tufts Street
Somerville, Massachusetts

Sample Location:			MW105						MW106						MW107						MW108						MW109			MW110			MW111			MW111		
Sample Name:			MW105	MW105	MW105	MW105	MW105	MW105	MW106	MW106	MW106	MW106	MW106	MW106	MW107	MW107	MW107	MW107	MW107	MW107	MW108	MW108	MW108	MW108	MW108	MW108	MW109	MW109	MW109	MW110	MW110	MW110	MW111	MW111	MW111	MW111	MW111	MW111
Well Screen Interval (ft bgs):			19 to 29	19 to 29	19 to 29	19 to 29	19 to 29	19 to 29	9 to 19	9 to 19	9 to 19	9 to 19	9 to 19	9 to 19	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	3 to 13	3 to 13	3 to 13	3 to 13	3 to 13	3 to 13	4 to 14	4 to 14	4 to 14	4 to 14	4 to 14	4 to 14
Sample Date:			7/14/09	10/14/09	4/12/10	4/20/11	4/17/12	4/23/13	1/18/07	4/13/07	7/19/07	10/10/07	1/10/08	4/17/08	1/18/07	4/13/07	7/18/07	10/10/07	1/10/08	4/17/08	1/18/07	4/16/07	7/18/07	10/10/07	1/10/08	4/17/08	1/18/07	4/16/07	4/17/08	1/18/07	4/17/07	5/23/07	1/18/07	4/16/07	7/18/07	10/10/07	1/10/08	4/17/08
Collected By:			GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Analyte	**Method**	**Units**																																				
Volatile Organic Compounds (VOCs)																																						
Acetone	8260	µg/l	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	69.9	< 5.0	9.2	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10
Benzene			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 5.0	< 13	NT	< 25	< 0.50	< 1.0
Bromodichloromethane			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0
2-Butanone (MEK)			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	7.7	< 5.0	1.1 J	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10
Carbon disulfide			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10
Carbon tetrachloride			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 G	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 10	< 25	< 1.0	< 50	< 1.0	< 2.0
Chlorobenzene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.28 J	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0
Chloroethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 G	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 20	< 50	< 2.0	< 100	< 2.0	< 4.0
Chloroform			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	1.2	NT	0.56 J	0.39 J	1.7	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	1.2	< 2.0
Chloromethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	2.5	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 20	< 50	NT	< 100	< 2.0	< 4.0
1,4-Dichlorobenzene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0
1,1-Dichloroethane			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.6	4.3	0.52 J	< 1.0	2.1	3.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	30.9	15.7 J	16.8	19.1 J	5.6	4.3 C+
1,2-Dichloroethane			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 10	< 25	0.43 J	< 50	< 1.0	< 2.0
1,1-Dichloroethylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.4	6.3	3.4	3.9	4.1	1.5	3.2	3.7	< 1.0	< 1.0	1.3 G	2.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	17.6	< 25	10.5	< 50	4.1	3.7 C+
cis-1,2-Dichloroethylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	22.6	17.2 J	56.3	63.9	10.6	4.4 C+
trans-1,2-Dichloroethylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 10	< 25	1.5	< 50	< 1.0	< 2.0
1,2-Dichloropropane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 20	< 50	NT	< 100	< 2.0	< 4.0
1,4-Dioxane			< 25	< 25	< 25	< 25	< 25 K-	< 50	< 25	< 25	NT	< 25	< 25	< 25	< 25	< 25	NT	< 25	< 25	< 25	< 25	< 25	NT	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	NT	< 250	< 630	NT	< 1300	< 25	< 50
Ethylbenzene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0
2-Hexanone			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10
4-Isopropyltoluene			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10
Methyl tert-butyl ether			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 K-	12.2	12.1	NT	252	78.0	4.9	< 1.0	< 1.0	NT	< 1.0	0.21 J	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.5	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	0.45 J	< 2.0
Methylene chloride			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 20	31.4 J	NT	< 100	< 2.0	< 4.0
Naphthalene			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10
Tert-amyl methyl ether			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	2.2	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 20	< 50	NT	< 100	< 2.0	< 4.0
1,1,1,2-Tetrachloroethane			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10
Tetrachloroethylene (PCE)			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.53 J	1.0 F-	1.2	2.3	1.7	2.3	0.44 J	< 1.0 F-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 F-	< 1.0	< 1.0	0.60 J	< 1.0	< 1.0	178 F-	28.5	17.4	0.89 J F-	0.93 J	NT	13700 F-	7370	6340	8350	3100	1160 C+
Tetrahydrofuran			< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NT	< 10	< 10	< 10	< 10	< 10	NT	< 10	< 10	< 10	< 10	< 10	NT	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NT	< 100	< 250	NT	< 500	< 10	< 20
Toluene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	110	0.40 J	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0
1,1,1-Trichloroethane (TCA)			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	15.3	1.5 J+	6.4	11.3	14.9	2.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.77 J	0.97 J	0.31 J	< 1.0	< 1.0	NT	142	56.5	89.1	84.1	41.3	17.6 C+
1,1,2-Trichloroethane			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 10	< 25	< 1.0	< 50	< 1.0	< 2.0
Trichloroethylene (TCE)			1.6	0.78 J	1.1	1.8	1.7	1.6	3.7	4.8	3.6	4.4	4.9	1.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.5	< 1.0	0.52 J	< 1.0	< 1.0	NT	150	84.4	120	125	42.1	19.9 C+
Vinyl chloride			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 10	< 25	< 1.0	< 50	< 1.0	< 2.0
m,p-Xylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0
o-Xylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0
Total Xylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0
Metals (Total)	6010B	µg/l	NT	NT	NT	NT	NT	NT		NT	NT	NT	NT	NT		NT	NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT
Arsenic									< 10						< 10						< 10									2.9								
Iron									319						6160						< 100									84000								
Manganese									NT						NT						NT									NT								
Metals (Dissolved)	6010C	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron																																						
Others			NT	NT	NT	NT	NT	NT		NT	NT	NT	NT	NT		NT	NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT		NT		NT	NT	NT	NT	NT
Methane	8015	µg/l							< 10						4.13 J						0.18 J									< 10		NT						
Ethane	8015	µg/l							< 10						< 10						< 10									< 10		NT						
Ethylene	8015	µg/l							< 10						< 10						< 10									< 10		NT						
Alkalinity	E310.1	µg/l							83100						174000						71100									122000		NT						
Chloride	E325.3	µg/l							1870000						100000						235000									142000		1010000						
Chlorine, Total Residual	E330.4	µg/l							NT						NT						NT									NT		< 50						
Iron, Ferrous	3500FE B	µg/l							NT						NT						NT									NT		NT						
Nitrate & Nitrite as N	E353.2	µg/l							12900						100						< 100									2400		NT						
Nitrogen, Nitrate	E353.2	µg/l							12800						< 110						< 110									2300		NT						
Nitrogen, Nitrite	E354.1	µg/l							83						< 10						< 10									54		NT						
Sodium	6010C	µg/l							NT						NT						NT									NT		NT						
Sulfate	E375.4	µg/l							86800						33400						28100									47700		NT						
Sulfide	E376.1	µg/l							< 2000						< 2000						< 2000									< 2000		NT						
Surfactants	E425.1	µg/l							< 100						150						< 100									< 100		NT						
Total Organic Carbon	E415.1	µg/l							1300						12200						1300									5700		NT						

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting limit.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.

Qualifying Notes:
- B The analyte found in associated method blank.
- C+ The result has a high bias due to surrogate recovery above upper control limits.
- E The value exceeds the calibration range.
- F+ The result has a high bias due to matrix spike recovery above upper control limits.
- F- The result has a low bias due to matrix spike recovery below lower control limits.
- G The result is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.
- K- The result has a low bias due to blank spike or laboratory control sample recovery below lower control limits.
- K+ The result has a high bias due to blank spike or laboratory control sample recovery above upper control limits.
- R The result is rejected due to gross exceedence of minimum response factor criteria.

APPENDIX G

CID PETITION

10 State Street, Suite 100
Woburn, MA 01801
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May 10, 2024 DRAFT

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup
150 Presidential Way
Woburn, Massachusetts

SUBJECT: Contained-In Determination
Soil from Tufts Street Right-of-Way
RTN 3-23246

Dear Program Manager,

On behalf of City of Somerville, I have made a "contained-in" determination following the approach presented in the MassDEP's Technical Update, Considerations for Managing Contaminated Soil: RCRA Land Disposal Restrictions and Contained-In Determination (2010) regarding soil from a portion of the following M.G.L. c. 21E disposal site:

RTN:	3-23246
Site Name:	50 Tufts Street and Property Across Street
Street Address:	Tufts Street right-of-way
City/Town:	Somerville, MA
Zip Code:	02145

The soil contained the listed hazardous waste(s) with waste code U210, which MassDEP is authorized to regulate under the Resource Conservation and Recovery Act (RCRA) by the U.S. Environmental Protection Agency (USEPA). However, the soil (check one):

☒ Met all applicable S-1 standards upon removal*; or
☐ Was treated through a method of treatment other than dilution so as to meet all applicable S-1 standards.

*The soil noted herein has been pre-characterized in-situ and has been determined to meet applicable S-1 standards.

The levels of the listed hazardous waste constituents in the generated soil are:
Summary of Detected Listed Waste within Contained-In Determination

Sample ID	Sample Date	Substance/Compound	Results (ppm)	Applicable MCP Method 1 S-1 Standard		
				S-1 Soil & GW-1	S-1 Soil & GW-2	S-1 Soil & GW-3
ATC-8, 5'-10'	**3/14/2024**	**Tetrachloroethylene (127-18-4)**	**0.0134**	**1 ppm**	**10 ppm**	**30 ppm**

The City of Somerville Tufts Street Improvement Project is planning to reconstruct sidewalks and repave Tufts Street between Cross Street and Washington Street as part of the City's Pavement and Sidewalk Management Program. As part of this project soil less than 10 feet below grade will be generated for offsite disposal primarily from the installation of drainage structures and sidewalks. As shown on the attached Atlas annotated Phase V ROS Site Plan (GEI, August 2023), the majority of Tufts Street right of way is located within a disposal site listed by the Massachusetts Department of Environmental Protection (MassDEP) Bureau of Waste Site Cleanup (BWSC) under Release Tracking Number (RTN) 3-23246. This disposal site is associated with a release of tetrachloroethylene, also known as perchloroethylene (PCE), to soil and groundwater from a former drycleaner facility located at the abutting 50 Tufts Street property. The vertical extent of the disposal site begins just below the pavement surface and extends to at least 10 feet below grade.

On March 14 and 15, 2024, Atlas supervised the installation of 8 borings for sampling and laboratory analyses of soil to conduct in-situ pre-characterization of soil within Tufts Street for future potential off-site disposal associated with the Tufts Street Improvements Project. Two soil samples from each boring, for a total of sixteen (16) soil samples were collected under the supervision of Atlas from borings identified as ATC-1 to ATC-8 within the Tufts Street right-of-way between Cross Street and Washington Street. As shown on the attached August 2023 Phase V ROS Site Plan and Atlas annotated Tufts Street Construction Concept Plan, borings ATC-4 to ATC-8 are located within the disposal site while boring ATC-3 is located at the approximate northeast edge of the disposal and borings ATC-1 and ATC-2 are located outside the disposal site. At each boring location, discrete soil samples were collected by hand auger during preclearing from 0 to 5 feet below grade surface and in dedicated acetate liners using a Geoprobe drill rig from 5 to 10 feet below grade surface.

Soil samples from each boring were screened for total volatile organic compounds (VOCs), i.e., headspace, with a pre-calibrated photoionization detector (PID) in accordance with the MassDEP jar headspace method.

The sixteen samples were placed in laboratory provided containers and submitted to Eurofins laboratory under a chain of custody for analyzed for low level volatile organic compounds (VOCs) by EPA Method 8260. As summarized in the attached Tufts Street Borings Soil Analytical Summary table, the results were non-detect for all VOCs at 15 of 16 samples. Only PCE at 0.0314 milligrams per kilogram (mg/kg) was detected in soil from boring ATC-8, 5-10 feet below grade surface.

In addition to the above described discrete soil analyses of VOCs by 8260, two sets of composite soil samples, one set (ATC-1 to ATC-8 Composite 0-5') from the 0 to 5 foot below grade surface interval and the other set (ATC-1 to ATC-8 Composite 5-10') from the 5 to 10 foot below grade surface interval from each of the 8 borings, were submitted in properly preserved laboratory provided containers to Eurofins laboratory for the following analyses typically required by soil management facilities for disposal or recycling at those facilities: Semi-VOCs with low level PAHs (SIMS) by EPA Method 8270; PCBs by EPA Method 8082; RCRA 8 Metals; TCLP lead; Total Petroleum Hydrocarbons by 8100; Corrosivity; Total Organic Carbon; Flashpoint; Reactivity Cyanide and Sulfide; and Conductivity.

As presented in the Tufts Street Borings Soil Analytical Summary table, the results of the soil analyses do not exhibit any characteristics of hazardous waste pursuant to 310 CMR 30.120.The only soil sample that contained a detectable concentration of PCE (0.0134 mg/Kg at ATC-8, 5-10') as well the other soil analyses for the disposal site VOCs whose laboratory method reportable limits were also below S-1 standards within the disposal site area are eligible for a contained-in determination.

The soil management activities associated with this CID Petition will be conducted as a Utility-related Release Abatement Measure (URAM).

I understand that this "contained-in" determination is subject to a 21-day period during which the determination is subject to review by the MassDEP and that the soil cannot be handled as non-hazardous waste until the 21-day review period passes without objection from MassDEP or USEPA.

I also understand that if the soil is to be transported out-of-state, it must first be determined if the operator of the landfill or other receiving facility and the relevant state agency (or the relevant USEPA region, if the state does not administer the RCRA program) are willing to accept contained-in determinations performed by a

Massachusetts Licensed Site Professional. In doing so, the process by which “contained-in” determinations are performed in Massachusetts will be explained to the relevant parties and proper documentation of all conversations will be retained.

I, Stephan Landry, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this submittal, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the person or entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate or incomplete information.

Respectfully submitted,

ATLAS TECHNICAL CONSULTANTS LLC

DRAFT

By: _____
Signature Date

LSP #: 2858
LSP Name: Stephan Landry, LSP
Telephone: 781-404-1431 (office); 603-674-9159 (cell)

For: City of Somerville
Name of person or entity

Attachment: Atlas Annotated August 2023 GEI Phase V ROS Site Plan
Atlas Annotated City Somerville 2024 Tufts Street Construction Concept Plan
Tufts Street Borings Soil Data Summary Table
MassDEP transmittal form BWSC-126
Laboratory Analytical Report

Distribution: Rebecca Wright, P.E., City of Somerville, rwright@somervillema.gov

File: cid petition rtn 3-23246 city somerville tufts street improvements 5-10-2024

Sections relevant to URAM highlighted yellow

SPECIFICATIONS FOR 2025 TUFTS STREET IMPROVEMENTS PROJECT AND ADDITIONAL WORK LOCATIONS

SCOPE OF WORK

The work to be performed under this contract shall consist of the reconstruction of Tufts Street and select intersections, sidewalk and specific repairs at select locations, and mill & overlay of a public street in Somerville, Massachusetts.

1. The reconstruction of Tufts Street extending from Washington Street to Cross Street. See **Attachment A** for Complete Streets Improvement Plans
    a. Tufts Street is a known location for contaminated soil, see **Attachment B** for Environmental Site Conditions Summary Tufts Street Improvements Project
    b. Storage area for the contaminated soils will be provided by the City within ¼ mile of project area.
    c. Licensed Site Professional (LSP) Services will be provided by the City.
2. Sidewalk replacement following locations. See **Attachment C** for limits of reconstruction.
    a. Webster Avenue
    b. Knowlton Street
3. Accessible Curb Ramps and Crossings at the following locations. Select locations also include crosswalks. See **Attachment D** for more detail on ramp and crosswalk location.
    a. 68 Glen Street
    b. Benedict Avenue
    c. Clark Street and Newton Street
    d. Franklin Street and Oliver Street
    e. Glen Street and Fountain Avenue
    f. Glen Street and Webster Street
    g. Concord Avenue
4. Accessible parking Ramp at the following location. See **Attachment E** for more detail on ramp location.
    a. Bonair Street
5. A total of 20 HMA Speed Humps at locations to be determined by the engineer

The work includes excavation, gravel borrow, grading, drainage modifications, manhole adjustments, drainage inlet reconstruction, curb removal and resetting, curb extensions, installation of MAAB/ADA compliant curb cuts, crosswalk lines, stop lines, colored lane markings and all other incidental work listed in the proposal. Layout and design plans will be provided following notice to proceed where substantive change to the existing street layout is proposed.

PROVISION FOR TRAVEL AND PROSECUTION OF THE WORK

The street and adjacent side streets shall remain open to travel throughout the period required for the completion of the improvement except as permitted by the City of Somerville Traffic Commission. Reasonable facilities shall be provided by the Contractor for the convenient and safe passage of pedestrians through the project and also to and from properties abutting the

improvement. Reasonable facilities shall also be provided by the Contractor to ensure that all businesses remain accessible during business hours. Particular care shall be taken at all times to establish and maintain such methods of procedure as will not create hazards of an unusual nature.

LIMITATIONS OF OPERATIONS

The Contractor shall conduct the work at all times in such a manner and in such sequence as will assure the least interference with traffic and abutters. The Contractor shall have due regard to the location of detours and to the provisions for handling traffic. The Contractor shall not open up work to the prejudice or detriment of work already started. The Contractor shall have due regard to the potential conflict between existing features (e.g., pavement markings, signs, curb, etc.) and interim/proposed features (e.g., pavement markings, signs, curb, etc.) and shall provide temporary transitions between those features that results in reasonably safe and convenient travel in accordance with Subsection 7.09: Public Safety and Convenience of the Standard Specifications.

WORK SCHEDULE

Work on this project is mainly restricted to a ten-hour day, five-day week with the Prime Contractor and all subcontractors working on the same shift from 7am to 5pm. Peak hour work restrictions may apply as specified in the Street Permit or as directed by the Engineer.

Project includes biweekly project meetings between the Contractor, subcontractor(s), project engineer and City Engineer. The frequency and location will be determined by the City Engineer during the project and may be changed as construction progresses.

LIQUIDATED DAMAGES

Delays to due to the cancellation of work, not including of inclement weather, will be subject to the assessment of liquidated damages as outlined below. A verbal warning will be given to the Contractor's supervisor and a written warning will be sent to the Contractor for the first offense. Every offense thereafter will be penalized as follows:

1. The Contractor agrees that the City of Somerville may retain the sum of $250.00 from the amount of the compensation for the each 60 minutes (1 hour) of late arrival by the contractor at the predetermined meeting location.
2. Any cancellation by the Contractor within five hours of a scheduled shift will result in the Contractor compensating the Engineering Department for a sum of $2,000.00.
3. If the Contractor hasn't completed any shifts for a total of two weeks in the same construction season due to inadequate personnel availability, then damages may be assessed for subsequent weeks without completed work due to inadequate workforce availability occurring at a weekly rate of $4,000.00.

If the Contractor has an outstanding invoice with the City of Somerville, the corresponding sums from liquidated damages mentioned above will be deducted from that invoice, otherwise the Contractor shall remit this payment within fourteen calendar days.

DISPOSAL OF SURPLUS MATERIAL

Surplus material, unless excavated from the known contaminated areas ad outlined in Attachment B, resulting from the various kinds of excavation and not required for use on the project shall be disposed of by the Contractor, outside the project limits, at their own responsibility and without additional compensation thereof.

REMOVAL AND DISPOSAL OF STRUCTURES AND OBSTRUCTIONS

The Contractor shall accept and hold entire responsibility for the stacking and protection of materials that have been removed from the site and that are to be reused in the work. Any materials lost or damaged through lack of protection or carelessness by the Contractor shall be replaced at their expense.

SEQUENCE OF WORK

Provide a monthly work schedule for the entire project at the beginning of the project. Provide a weekly schedule for the next two months of work. Update schedule biweekly.

After a street is cold planed/milled, it shall remain open for a maximum of five (5) working days prior to repaving. After removal of sidewalk, it shall remain open for a maximum of ten (10) working days prior to replacement. However, due to special circumstances, this requirement may be waived by the City Engineer.

Construction sequence for sidewalk and accessible ramp construction shall be set to provide an accessible path consistent with the existing pedestrian facility that is disrupted or closed with the following expectations:

1. Sidewalk construction within a block shall be limited to one side of the road at a time.
2. Accessible pedestrian ramp construction shall be limited to one corner of an intersection at a time.
3. At the end of every working day, the Contractor shall ensure an accessible route is present.
4. A Pedestrian Management Plan shall be submitted for review two weeks prior to first scheduled sidewalk removal/obstruction. The Pedestrian Management plan shall be both narrative and graphical and shall be specific to the streets and intersections of the Project. The Pedestrian Management Plan shall provide requirements to meet (e.g. continuous accessible route through Project at all times, etc.).
5. Shop Drawings: Within 30 days after the date of the Notice To Proceed, the Contractor shall submit shop drawings for signal supports, a list of equipment, and manufacturer's equipment specifications to the Engineer in accordance with the relevant provisions of Section 815.20. No work shall commence by the Contractor until approval of the shop drawings and manufacturer's data has been received in writing from the Engineer. Approval of these drawings will be general in character and shall not relieve the Contractor from the responsibility of, or the necessity of, furnishing materials and workmanship conforming to the plans, standard specifications, and these special provisions.

Per MassDOT Standard Details for the Development of Temporary Traffic Control Plans, when existing pedestrian facilities are disrupted, closed, or relocated in a temporary traffic control zone, temporary facilities shall be provided and they shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility.

COOPERATION OF THE CONTRACTOR

Attention is directed to the fact that the Public Service Corporations and Municipal Departments may enter the site of the improvement and alter, replace, and/or install facilities at some time when the Contractor will be prosecuting other work contiguous thereto.

PROTECTION AND RESTORATION OF PROPERTY

Special care shall be exercised by the Contractor during the prosecution of the work, to save from harm and injury any structure, public or private, water system situated above or below the surface, and adjacent properties lying within the scope of the project, not specifically designated to be removed or otherwise altered.

Any damage to private property due to the construction activities of the Contractor shall be repaired to the property owner's satisfaction within thirty (30) working days.

STREET TREES

Existing trees shall be retained unless otherwise noted on plans, and their roots protected at all times during construction.

SIDEWALKS, DRIVEWAYS AND ACCESSIBLE CURB CUTS

The Contractor shall be responsible for protection of newly placed cement concrete sidewalks, driveways, and accessible curb cuts (pedestrian curb ramps) from vandalism. The Contractor shall not be reimbursed for repairing or replacing concrete walks as a result of vandalism.

BACKFILLING FOR STRUCTURES AND PIPES

All backfilling for structures and pipes shall conform to the Commonwealth of Massachusetts Department of Transportation Standard Specification for Highways and Bridges, 2021 Edition, Section 150.64.

RETAINAGE

A Retainage of 5% shall be held by the City. This sum shall be held by the City for a period of sixty (60) days after final estimate is made and the work is accepted by the City.

All unit prices quoted herein shall be firm for the duration of the Contract, regardless of any changes in the cost of materials or labor.

CONTRACTOR'S EQUIPMENT STORAGE

Contractor's equipment is not to be parked or stored at the Public Works Yard at any time.

NOTICE TO OWNERS OR UTILITIES

Written notice shall be given by the Contractor to all public service corporations or officials owning or having charge of publicly or privately owned utilities of the Contractor's intention to commence operations affecting such utilities at least one week in advance of the commencement of such operations, and the Contractor shall, at the same time, file a copy of such notice with the City Engineer.

Bidders are hereby notified that information is available regarding the existing utility structures which may be encountered within and adjacent to the limits of the work and the corporations owning controlling same. The completeness of this list is not guaranteed by the Department.

City of Somerville
Department of Public Works
Superintendent of Operations
Attn.: Eric Weisman
Superintendent of Lights & Lines
Attn.: Mark Lawhorne
One Franey Road
Somerville, MA 02145
617-625-6600

City of Somerville
Water & Sewer Department
Water Division
Attn.: Kimberly Abraham
(Acting W&S Director)
Sewer Division
Attn.: Jay Hayden
One Franey Road
Somerville, MA 02145
617-625-6600

City of Somerville
Parking Department
133 Holland St.
Somerville, MA 02144
617-625-660

Comcast Communications
Attn.: Dave Flewelling
617-279-7864
9 Forbes Ave.
Woburn, MA 01801

Level 3 Communications, LLC
Michael Mugo
978-908-0313
1025 Eldorado Blvd
Broomfield, CO 80021

MWRA Water & Sewer Division
Charlestown Navy Yard
100 First Ave.
Boston, MA 02129
617-242-6000

Eversource Energy
Eversource Gas
Attn.: Roger Carson
781-346-7651
Eversource Electric
Attn.: Brian Lozier
339-987-8378
101 Linwood Street
Somerville, MA 02143

National Grid Gas
Attn.: Matthew Carmody
781-790-6062
170 Medford St.
Malden, MA 02148

Verizon Communications
Attn.: Paul Diamantopoulos
978-323-0282
185 Franklin St.
Boston, MA 02210

RCN Communications
Attn.: Kenny Bates
617-293-0201
115 West First St.
Boston, MA 02127

The Contractor shall notify Massachusetts “DIG SAFE” 72 hours prior to start of construction.

“DIG SAFE” call center: 1-888-DIGSAFE or 1-888-344-7233.

Utility Release Abatement Measure Specifications

The majority of the Tufts Street right of way work area is located within a Massachusetts Contingency Plan (MCP, 310 CMR 40.0000) defined Disposal Site listed by the Massachusetts Department of Environmental Protection (MassDEP) Bureau of Waste Site Cleanup (BWSC) under Release Tracking Number (RTN) 3-23246. The horizontal extent of the Disposal Site within the work area is shown on the Contract Drawings. This Disposal Site is associated with a release of chlorinated volatile organic compounds (CVOC) to soil and groundwater from a former drycleaner facility located at the abutting 50 Tufts Street property. The vertical extent of this Disposal Site begins just below the pavement surface and extends to at least 10 feet below grade.
All subsurface work will be performed within the Disposal Site as a Utility Release Abatement Measure (URAM) per 310 CMR 40,0460. All soil and groundwater from the portion of the work area within the Disposal Site for RTN 3-23246 will be covered by the URAM and performed under an Environmental Health and Safety Program. The City of Somerville (City) will provide required Licensed Site Professional (LSP) services.

BOND REQUIREMENTS

A Performance Bond and a Labor and Materials Bond in the amount of 100% each of the contract price will be required from the successful bidder.

PREVAILING WAGE REQUIREMENTS

Bidders will be required to comply with the Prevailing Wage Laws, M.G.L., C.149. The selected Contractor will be required to submit a certified payroll to the City every week. The City will take an active role in reviewing and monitoring this payroll weekly. If the City suspects any violations, the City will report them to the Attorney General's Fair Labor and Business Practices Division. The Attorney General's Office, after conducting an investigation and a hearing can order the bidder to halt work, if it finds prevailing wage violations. Within fifteen days after completion of its portion of the work the bidder must submit a Statement of Compliance with the prevailing wage law. The City reserves the right to conduct hearings on bids that are significantly below the average bid price submitted on a project, to make findings of fact and determinations. Weekly payrolls are public records, and the bidder shall make them available upon request. The Bidder is required to keep these records for a period of three years from the date of the completion of this contract.

INSURANCE REQUIREMENTS

(See attached)

PARTICULAR SPECIFICATIONS

ITEMS

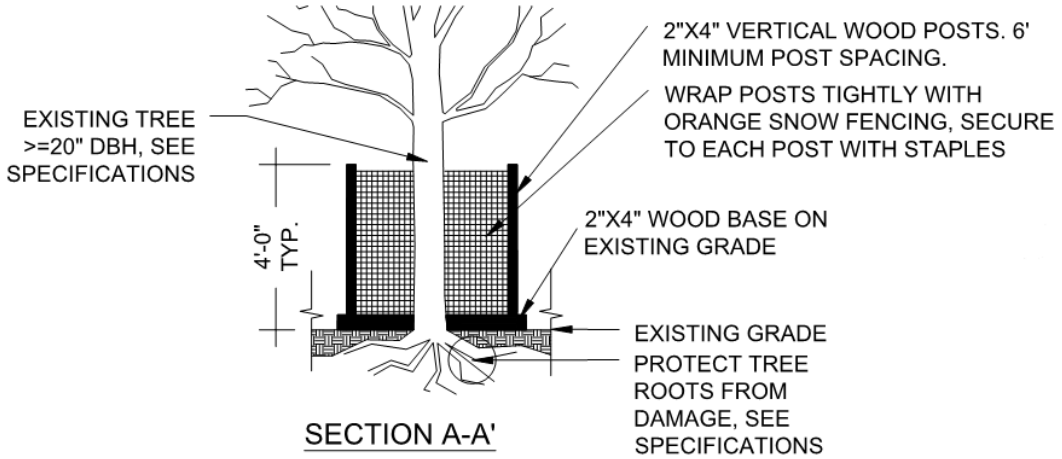
The items below shall conform to the Commonwealth of Massachusetts, Department of Transportation Standard Specifications for Highway and Bridges, 2023 Edition including the latest amendments and addendum thereto, except brick work as described in Item 706. and Traffic Police as described in Item 999.001.

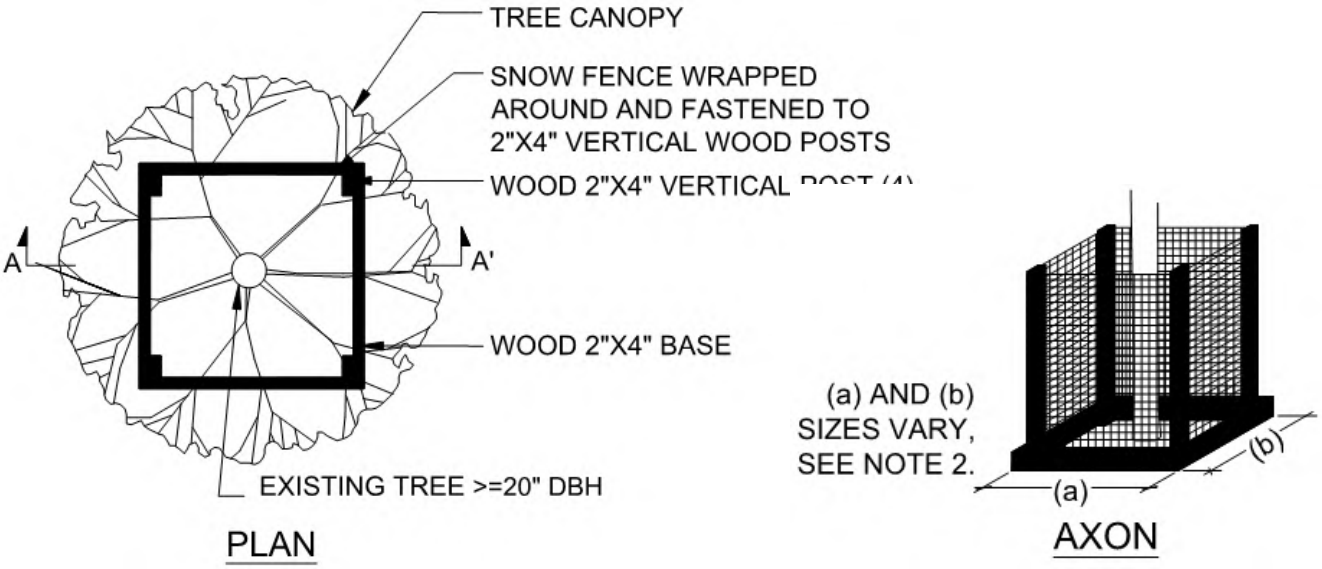
The quantity of items listed, are approximate only. They are given as a basis for comparison of bids. The City does not expressly or by implication agree that the actual amount of work will correspond therewith. The City reserves the right to increase or decrease the quantity of any bid item.

An increase or decrease in the quantity of any items shall not be regarded as cause for an increase or decrease in the contract unit price. Contractor waives their right to renegotiate bid unit pricing based on quantity changes.

ITEM 102.511
TREE PROTECTION – ARMORING & PRUNING **EACH**

ITEM 102.521
TREE AND PLANT PROTECTION FENCE **FOOT**


2"X4" VERTICAL WOOD POSTS. 6' MINIMUM POST SPACING.
WRAP POSTS TIGHTLY WITH ORANGE SNOW FENCING, SECURE TO EACH POST WITH STAPLES
EXISTING TREE >=20" DBH, SEE SPECIFICATIONS
2"X4" WOOD BASE ON EXISTING GRADE
4'-0" TYP.
EXISTING GRADE
PROTECT TREE ROOTS FROM DAMAGE, SEE SPECIFICATIONS
SECTION A-A'



NOTES:

1. TREE BOX RESTS ON EXISTING GRADE AND IS NOT ANCHORED TO THE GROUND.

2. SIZE OF TREE PROTECTION BOX VARIES BASED UPON TRUNK SIZE AND LIMITS OF SURFACE ROOTS. FINAL SIZE TO BE DETERMINED BY CITY URBAN FORESTER IN FIELD DURING PRE-CONSTRUCTION SITE WALK.

3. TREE PROTECTION SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITIES AND MAINTAINED IN GOOD CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.

4. SUBMIT SHOP DRAWINGS SHOWING ALL MATERIALS AND ATTACHMENTS.

5. TREES HAVING A CALIPER UNDER 20" DIAMETER AT BREAST HEIGHT (DBH) SHALL BE WRAPPED WITH TREE PROTECTION LUMBER. "SPECIAL MATURE TREES", THOSE TREES WITH A CALIPER OVER 20" DBH, SHALL BE WRAPPED WITH TREE PROTECTION LUMBER AND PROTECTED WITH A TREE BOX. TREE BOX SHALL BE OMITTED WHEN IT IMPEDES ADJACENT SIDEWALK CONSTRUCTION OR WHEN AN ADA ACCESSIBLE PATH CANNOT BE PROVIDED AROUND IT.

6. CONTRACTOR SHALL PROTECT PRIVATE TREES, PORCHES, AND PRIVATE SIDEWALKS DURING WORK AND RESTORATION.

The work to be done hereunder consists of protecting trees in accordance with the relevant provisions of Section 100 and the following.

PART 1 – GENERAL SUMMARY

1.1 This section includes the following:

1. Provide labor, material, tools and equipment to prepare site as indicated and specified.

2. Protection of existing trees and vegetation within the limit of work. Tree Protection should be assumed for existing trees within the project limit of work where proposed construction activity is to occur beneath the canopy and within the drip lines of existing trees. Tree protection shall remain in place throughout the duration of the construction project but may be temporarily relocated to allow for work in select areas in close proximity to the trees to occur as approved by the Owner's Representative. Tree protection shall be promptly restored following these select work operations. The measures described herein are anticipated to be required and will be verified based on actual field conditions. Provisions under this item include: tree protection measures to minimize disturbance to existing trees and their root systems; canopy system review and evaluation; canopy pruning in areas of proposed disturbance; and post-pruning care including mulching and watering of root zones.

PART 2 – PRODUCTS

2.1 TREE BOX

A. Tree Box shall be constructed from 2 in. x 4 in. lumber creating a box around the b the tree pit with 2 in. x 4 in. lumber standing straight up at the corners and wrapped with orange snow fence. Fasteners as per detail.

2.2 TREE TRUNK WRAPPING PROTECTION LUMBER

A. Tree Trunk Wrapping Protection Lumber shall consist of 2 in. x 4 in. and 8 ft. height lumber wired together in close spacing with 16-gauge galvanized steel wire to form a protective enclosure around tree trunks. See photo examples of tree wrap protection in Section 3.6.

2.3 WOOD CHIPS

A. Wood Chips shall conform to provisions of Wood Chip Mulch under Materials Section M6.04.3 of the MassDOT Standard Specifications.

2.4 WATER

A. Water shall be furnished by Contractor, suitable for irrigation and free from ingredients harmful to plant life. Hose and other watering equipment required for work shall be furnished by Contractor.

PART 3 - EXECUTION

3.1 EXISTING TREES AND VEGETATION

A. Contractor shall be responsible for the health of the existing trees in the immediate vicinity of construction. Trees damaged by construction operations which, as determined by the Owner's Representative, can be remedied by corrective pruning measures shall be addressed immediately.

B. Public trees are protected by Massachusetts State Law, Chapter 87. Section 12 states that a fine of up to five hundred dollars, ($500.00) per incident of damage to public shade trees can be levied. Each branch broken or improperly pruned, each improper wounding of the trunks of the trees, and each root improperly pruned shall constitute an infraction. Section 12 further provides that anyone who negligently or willfully damages a tree will be liable to the City for all damages.

C. If the City’s Urban Forester determines that a private or public property tree

cannot be repaired and restored to full-growth status, the Contractor shall replace the damaged tree(s) and pay liquidated damages as noted below.

a. The size of the replacement tree shall equal ½" caliper for every 1" caliper inch of the damaged tree (size of the damaged tree shall be measured, the new tree shall be based on nursery measurements). In the case that a replacement tree of that size cannot be found or cannot be planted, a number of trees with the combined DBH of the required replacement tree may be substituted, upon approval of the City Urban Forester. The species of the replacement tree(s) shall be determined by the Engineer and the City Urban Forester.

b. In addition to providing a new tree replacement, Contractor shall pay City $250.00 for every caliper inch of a damaged tree within limits of public property.

c. An example of the conditions stated above: A 20" caliper public tree was damaged and determined to need replacement. To remedy this situation, the Contractor would purchase and install a 10" caliper tree (or multiple trees with combined caliper inches of 10") and pay the Owner $5,000. Type of tree and installation specifications to be determined and signed off by the City Urban Forester.

d. The total cost of tree replacement, including the cost of the tree and stump removal, shall be borne by the Contractor.

D. The Contractor shall prune City and private trees within the limit of work under the direction of a Massachusetts Certified Arborist and only as required by the Engineer and with the supervision of the City's Urban Forester.

a. If a condition is observed requiring attention, the condition should be reported to the City within 24 hours. Such conditions may include structural weakness, rot or decay that cannot be corrected by cleaning, and dead trees.

b. Equipment and work practices that damage living tissue and bark beyond the scope of work shall be avoided. Climbing spurs shall not be used when climbing and pruning trees. Spurs may be used to reach an injured climber or when removing a tree.

c. Pruning tools (e.g. chain saws, pole saws, hand saws, pole pruners, etc.) shall be sharp and regularly sharpened and maintained throughout the Contract Term.

d. Not more than 25% of the foliage of an individual tree should be removed within an annual growing season. The percentage and distribution of foliage to be removed shall vary according to the tree species, age, health and site, in accordance with the types of pruning identified above.

e. Not more than 25% of the foliage of a branch or limb shall be removed when it is cut back to a lateral. The lateral shall be large enough to assume apical dominance.

f. Heading shall be permitted only by the expressed permission of the City, when needed to reach a defined objective.

g. Topping and lion tailing shall be considered unacceptable pruning practices.

h. All pruning cuts shall be made in accordance with the American National Standard for Tree Care Operations—Standard Practices (ANSI A300 Part 1), as approved by the American National Standards Institute, and published by the National Arborists Association (revised 2001). All terminology included in these Technical Specifications shall be defined by ANSI A300 Part 1.

i. When tracing wounds, only loose, damaged tissue should be removed. No other wound treatments shall be used.

E. Roots that cannot be avoided during construction for all other trees to remain shall be carefully and cleanly cut. Only hand methods for grubbing roots will be accepted inside drip lines of trees to be left standing. All pruning of any roots greater than 2" must be completed under the supervision of the City Urban Forester. Root pruning shall include application of root treatment or fertilizer as required. In order to minimize impacts to roots, Contractor shall uncover roots with an air spade as required by the City's Urban Forester.

F. Trucks and heavy equipment shall not pass over or park on roots of trees; nor shall construction materials, debris, or excavated material be stored within drip line of trees or within tree pits. For occasional or one time access over roots, ½-inch plywood overlapped may be used. Permeable materials such as gravel or wood chips shall be placed over root systems of trees which are not covered by hardscape and over which trucks and heavy equipment must travel during construction operations, when such travel is unavoidable, to prevent soil compaction and root damage. Material shall be replaced as needed. Contractor must have prior approval for access from the Owner's Representative or City Urban Forester.

G. During sidewalk construction adjacent to trees, suitable soil shall be maintained within tree wells. Moist soil or mulch shall also be maintained around surface roots outside of tree wells which may become exposed during construction. Such covering shall be placed as soon as possible after roots are exposed. If roots are

going to be exposed for more than one hour, cover roots with damp burlap. Burlap shall be kept moist until most soil and mulch can be used for permanent cover.

H. Tunneling shall be the preferred method of excavation adjacent to tree roots to avoid root pruning. If root pruning is unavoidable, a certified arborist shall be onsite to execute or oversee the operation with sufficiently sharpened hand tools and in such a fashion as to have minimum negative impact on tree health and safety.

I. All tree protection fencing must be installed and approved by the Owner's Representative and the City Tree Warden or City Urban Forester before site preparation or other construction activity commences. Any modifications to tree protection fencing during construction can only take place with advanced written approval from the Owner's Representative and the City Tree Warden or City Urban Forester.

J. Provide protection necessary to prevent damage to existing trees and improvements indicated to remain in place inside or outside of the limit of work. Existing trees and shrubbery to remain shall be protected from injury. Except as otherwise approved, cutting and trimming of existing tree limbs and roots will not be permitted. Existing trees to remain which can potentially be damaged by construction operations shall be protected. Trees having a caliper under 20" diameter at breast height (dbh) shall be wrapped with tree protection lumber. "Special Mature Trees", those trees with a caliper over 20" dbh, shall be wrapped with tree protection lumber and protected with a tree box. Protection shall be maintained until completion of the work of the Contractor.

K. Protect trees on adjoining properties and within City right-of-way. Restore trees damaged by Contractor's clearing and construction activities to their original condition or better, at no additional expense to the City.

L. Protect existing trees and other vegetation as directed by the City Urban Forester to remain in place or outside of the clearing/grading limit lines.

3.6 TREE WRAP PROTECTION EXAMPLES

ITEM 103.
TREE REMOVED – DIAMETER UNDER 24 INCHES **EACH**

ITEM 104.
TREE REMOVED – DIAMETER 24 INCHES AND OVER **EACH**

ITEM 105.
STUMP REMOVED **EACH**

The work to be done hereunder consists of removing and disposing in accordance with the relevant provisions of Section 100.

ITEM 120.1
UNCLASSIFIED EXCAVATION **CUBIC YARD**

The work to be done hereunder consists of removing and disposing in accordance with the relevant provisions of Section 120, all the materials obstructing the execution of required work as shown in the plans and as directed, except those materials for which payment is made inclusive with complete work specified to be performed under items of this contract. Concrete gutters are included under this item and any concrete bases encountered in the roadway excavation. The Contractor's attention is directed to the fact that the materials shall be disposed of in accordance with the provisions written herein before under the heading "Disposal of Surplus Materials" at no additional compensation.

ITEM 120.2
HAND AND/OR PNEUMATIC EXCAVATION **CUBIC YARD**

The work done under this item shall conform to the relevant provisions of Section 120 of the Standard Specifications. The Contractor shall perform HAND AND/OR PNEUMATIC EXCACATION in accordance with the plans, specifications, and direction of the City of Somerville's Tree Warden.

Intent
The intent of the item is to either hand excavate or excavate with a pneumatic air device in areas where trenching or other excavation is required within the drip line of existing trees and/or excavation around gas lines, conduit, utilities and other sensitive areas. These are areas, where in the opinion of the Tree Warden, use of a backhoe or tractor would not be appropriate.

Method
Prior to beginning work, the area to be trenched/excavated shall be thoroughly wetted, 24 hours in advance, to minimize dust to the greatest extent possible. Trenching/Excavation shall be accomplished either by hand or with a pneumatic device such as an Air-Spade® CGP System, as manufactured by AirSpade, Chicopee, MA, or approved equal. The Contractor shall provide a compressor unit for operating the pneumatic excavator rated at one hundred fifty standard cubic feet per minute (150 scfm) at ninety pounds per square foot gauge (90 psfg). All pneumatic excavation shall be as minimal as possible in width and depth, thereby minimizing the impact on tree roots and other areas where the Tree Warden determines that conventional

machine excavation may be detrimental. Different nozzles may be used on the air spade to expedite the work or minimize the amount of airborne material. Depth shall be as indicated on Contract Drawings or as directed by the Tree Warden. Depths greater than 18" shall require removal of soil by hand shovel, or other appropriate means. Where a pneumatic device is used, care shall be taken to avoid rocks being scattered and inadvertently damaging private or public property. In addition, operators must be equipped with adequate protective clothing and gear, in accordance with their Health and Safety Plan. All tree roots exposed by the pneumatic or hand excavation operation must be kept constantly moist with burlap covered with white plastic and checked a minimum of two (2) times a day, once in the morning and once in the afternoon, for a maximum of forty-eight (48) hours, until backfill is complete as directed by the Tree Warden. If directed, use of tree bags filled with water shall be installed to facilitate properly moist conditions.

Necessary inspections of piping shall be scheduled in advance, especially those involving inspections performed by outside Agencies.

In cases where roots must be cut, the Contractor must receive written approval from Tree Warden prior to cutting any roots larger than one inch (1") in diameter. Roots must be cut cleanly with pruning shears, loppers, or pruning saws. All root cuts must be approved by the Tree Warden prior to backfilling.

Measurement and Payment

The quantity of HAND AND/OR PNEUMATIC EXCAVATION to be paid for under this Item shall be the number of CUBIC YARDS of material excavated and backfilled, as measured in its original position, in accordance with the plans, specifications, and directions of the Project Manager.

The price bid shall be a unit price per CUBIC YARD of Hand And/Or Pneumatic Excavation and shall include the cost of all labor, materials, and equipment, and incidentals necessary for the excavation, removal and disposal of excavated material, backfilling, compacting (if under paved surfaces) and other incidental work and expenses necessary to complete the work in accordance with the plans and specifications, to the satisfaction of the Project Manager.

ITEM 141.1
TEST PIT FOR EXPLORATION **CUBIC YARD**

The work under this item shall conform to the relevant provisions of Section 140 of the Standard Specifications and the following:

All test pits shall be as directed or approved by the City Engineer.

All test pits must be coordinated with the City of Somerville's Department of Public Works. A representative of the City of Somerville's Department of Public Works shall specify the location and size of the test pit and shall be present during the excavation.

The test pit shall be backfilled with City of Somerville approved gravel borrow, placed in six (6") lifts and compacted to 95% of the maximum density.

Bypass pumping, sheeting/shoring, dewatering, excavation, cutting existing pavement, bedding, backfilling, dust control, appurtenances, and the removal and disposal of the existing VC sewer piping to be replaced shall be considered incidental to the work with no additional compensation provided.

Shoring shall be utilized as necessary to prevent caving of adjacent pavement. Where required proposed shoring shall be designed and stamped by a Massachusetts Registered Professional Engineer at the expense and direction of the Contractor and submitted to the Engineer for approval. Shoring submittal shall include design computations and all proposed shoring and bracing plans and details addressing all necessary construction requirements.

The hot mix asphalt used to repair and patch the road shall be considered incidental this Item. The depth of pavement repair will be determined by the City of Somerville's Department of Public Works.

The compacted Gravel Borrow used to backfill the Test Pit shall be paid under Item 151. Gravel Borrow.

ITEM 142.
CLASS B TRENCH EXCAVATION **CUBIC YARD**

The work under this item shall conform to the relevant provisions of Section 140 of the Standard Specifications.

ITEM 151.
GRAVEL BORROW **CUBIC YARD**

The work to be done hereunder consists of finishing and placing gravel as required and in accordance with the plans and the relevant provisions of Section 150.

Compensation for this work shall be determined only as provided in Section 150, measurement shall be made in place and 20% added to the quantity so found.

ITEM 158.1
TRENCH DAMS FOR DRAINAGE PIPE **EACH**

The work to be done under this item shall conform to the relevant provisions of section 150 of the Standard Specifications.

Check Dams shall be placed a minimum of once per drainage pipe section greater than 30 feet in length within the Disposal Site Boundary as defined by the plans.

Check Dams shall be constructed from bentonite, excavatable controlled density fill or an onsite clay material as approved by the engineer and accordance with the plans.

Measurement and Payment

Check Dams will be measured and paid at the Contract unit price per each, complete in place, which price shall include all labor, materials, equipment and incidental costs required to complete the work.

ITEM 170.
FINE GRADING AND COMPACTING – SUBGRADE AREA **SQUARE YARD**

These special provisions for Item 170. supersede insofar as they conflict with the requirements of Standard Specifications as amended.

The work shall consist of shaping, trimming, rolling and finishing the surfaces of gravel foundation for pavements and gravel foundation for concrete sidewalks and driveways.

The areas to be fine-graded shall be raked to remove all stones and unsatisfactory material and shall then be rolled as directed. The work shall be paid for at the contract unit price per square yard of areas fine graded, rolled and finished and the area shall be measured horizontally between the limits of grading required.

ITEM 180.01
ENVIRONMENTAL HEALTH AND SAFETY PROGRAM **LUMP SUM**

The work shall consist of ensuring the health and safety of the Contractor's employees and subcontracted personnel, the environment and public welfare from any on-site chemical contamination present in air, soil, and groundwater.

The Contractor shall prepare and implement a site-specific Environmental Health and Safety Plan (EHASP) which has been approved and stamped by a Certified Industrial Hygienist (CIH) and includes the preparer's name and work experience. The EHASP shall be submitted two weeks prior to mobilization.

The EHASP shall include appropriate components required by OSHA Standard 29 CFR 1910.120(b)("HAZWOPER") and the Massachusetts Contingency plan (MCP) 310 CMR 40.0018 and specifically 310 CMR 40.0460, must comply with all applicable state and federal laws, regulations, standards and guidelines, and provide a degree of protection and training appropriate for implementation on the project. The EHASP shall be a dynamic document with provision for change to reflect new information, new practices or procedures, changing site environmental conditions or other situations which may affect site workers and the public. The EHASP shall be developed and implemented independently from the standard construction HASP.

Health and safety procedures provided by the Contractor shall comply with all the appropriate regulations that address employee working conditions, including but not limited to standards

established by OSHA and National Institute for Occupational Safety and Health (NIOSH). Equipment used for the purpose of health and safety shall be approved by and meet pertinent standards and specifications of the appropriate regulatory agencies. All personnel handling soils, and/or groundwater within the Disposal Site associated with RTN 3-23246 shall have current OSHA 40-hour HAZWOPER training.

The most up-to-date EHASP shall always be maintained on-site by the Contractor. It shall contain the signature of each on-site Contractor and their Subcontractor employees involved with on-site activities. The employee's signature on the EHASP shall be deemed prima facie evidence that the employee has read and understands the plan. Updated copies of signature sheets shall be submitted to the Engineer.

The EHASP shall specify a Contractor Site Safety and Health Officer responsible for implementation of the EHASP and to oversee all construction activities, including handling, storage, sampling and transport, which require contact with or exposure to potentially hazardous materials.

The level of protection required to ensure the health and safety of on-site personnel will be stipulated in the EHASP. The Site Safety and Health Officer shall implement the EHASP based on changing site and weather conditions, type of operation or activity, chemical compounds identified on-site, concentration of the chemicals, air monitoring data, physical state of the hazardous materials, potential duration of exposure to hazardous materials, dexterity required to perform work, decontamination procedures, necessary personnel and type of equipment to be utilized.

During implementation of the EHASP, a daily log shall be kept by the Site Safety and Health Officer and a copy shall be provided weekly to the Engineer. This log shall be used to record a description of the weather conditions, levels of personal protection being employed, screening data and any other information relevant to on-site environmental safety conditions. The Site Safety and Health Officer shall sign and date the daily log.

MEASUREMENT AND PAYMENT

Preparation and implementation of the EHASP, including the monitoring, protection and storage of all contaminated materials, as well as subsequent modifications to the EHASP, will be measured and paid for at the Lump Sum Bid Price.

Payment of 50% of the EHASP contract price will be made upon the initial acceptance of the EHASP by the Engineer. Payment of the remaining 50% of the EHASP contract price will be made upon completion of the work. The bid price shall include preparation and implementation of the EHASP as well as the cost for its enforcement by the Site Safety and Health Officer along with any necessary revisions and updates. The work of implementing the EHASP includes work involving, but not limited to, the monitoring, protection, and storage of all contaminated materials.

ITEM 180.02
PERSONAL PROTECTION LEVEL C UPGRADE **HOUR**

The work shall consist of providing appropriate personal protective equipment (PPE) for all personnel in an area either containing or suspected of containing a hazardous environment when determined to be required by the Site Safety Officer per the Environmental Health and Safety Plan.

Contingencies for upgrading the level of protection for on-site workers will be identified in the EHASP and the Contractor shall have the capability to implement the personal protection upgrade in a timely manner. The protective equipment and its use shall be in compliance with the EHASP and all appropriate regulations and/or standards for employee working conditions.
Personal Protection Level C Upgrade will be measured and paid only upon upgrade to Level C and will be at the contract unit price, per HOUR, per worker, required in Level C personal protection. No payment will be made to the Contractor to provide Level D PPE.

ITEM 181.11
DISPOSAL OF UNREGULATED SOIL **TON**

ITEM 181.12
DISPOSAL OF REGULATED SOIL – IN STATE FACILITY **TON**

ITEM 181.13
DISPOSAL OF REGULATED SOIL – OUT-OF-STATE FACILITY **TON**

ITEM 181.14
DISPOSAL OF HAZARDOUS WASTE **TON**

The work under these Items shall include the transportation and off-site disposal of all excavated soils. These items shall include the storage of excavated soils in up to three roll-off containers stored on the adjacent 50 Tufts Street property as may be required to determine soil management location. It shall also include the cost of any additional laboratory analyses required by a disposal facility, identifying and obtaining acceptance at an appropriate disposal facility.

Excavation of existing subsurface materials includes contaminated soils within the Disposal Site associated with RTN 3-23246. The primary contaminants are chlorinated volatile organic compounds (CVOCs). This work will be performed as a Utility Release Abatement Measure (URAM) in compliance with the MCP. The City will provide the required LSP support services.
The Contractor shall be responsible for the proper coordination of characterization, transport and disposal, recycling or reuse of contaminated soils. Disposal, recycling or reuse will be referred to as “disposal” for the remainder of this specification unless otherwise stated. However, regardless of the use of the term herein, there will be no compensation under these items for reuse within the project limits.

The Tufts Street right-of-way soils from below pavement to at least 10 feet below grade have been initially characterized as described in the Environmental Site Conditions Summary, Tufts Street Improvement Project (Atlas, May 2024). The Contractor is responsible for arranging for and coordinating the activities necessary for on-site reuse or transport and disposal of contaminated soils. Such coordination will include the Engineer and his/her designee overseeing management of contaminated materials, and the City's LSP.

Contaminated soils must be disposed of in a manner appropriate for the soil classification as described below and in accordance with the applicable laws of local, state and federal authorities. The Contractor shall be responsible for identifying a disposal facility(s) licensed to accept the class of contaminated soils to be managed and assure that the facility can accept the anticipated volume of soil contemplated by the project.

The Contractor shall be responsible for all ancillary professional services including soil sampling and analysis for this work. All sampling and analysis shall be performed in accordance with the MCP and the MassDEP's current Compendium of Analytical methods. A report shall be delivered to the Engineer outlining the material sampling methods, laboratory analysis results and proposed course of action. The Contractor will be responsible for obtaining all facility approvals and preparing all Uniform Hazardous Waste Manifests, Material Shipping Record, waste profiles etc. subject to the approval of the Engineer and City's LSP.

The Engineer and City's LSP will provide an MCP Bill of Lading. Contractor will be responsible for coordinating management facility's signature through MassDEP's eDEP submittal system.
All excavated soils from within the Disposal Site for RTN 3-23246 that are not staged on an impervious surface adjacent to the excavation and placed back in the excavation the day excavated or removed from the work area for offsite management the same day shall be stored in lined roll-off containers or in stockpiles placed on and covered with polyethylene sheeting. Any stockpiles shall be covered with polyethylene sheeting at the end of each workday. Groundwater within saturated soils shall be allowed to drain back into the excavation before being moved from the work area.

CLASSES OF CONTAMINATED SOILS:

The Contractor shall provide the City's LSP with a determination that soil excavated or to be excavated is unregulated soil or contaminated soil as defined in this section. Such materials shall be given a designation for purposes of reuse or disposal based on the criteria of the Massachusetts Contingency Plan (MCP). Based on consultation with the Engineer and City's LSP, soils which are not suitable for reuse will be given a designation for purposes of off-site disposal based on the characterization data and disposal facility license/permit requirements. The Classes of Contaminated Soils are as follows:

Unregulated Soil consists of soil or fill and dredged material with measured levels of oil and hazardous material (OHM) contamination at concentrations below the applicable Reportable Concentrations (RCs) presented in the MCP and from outside the Disposal Site associated with RTN 3-23246. Unregulated soil consists of material which may be reused (or otherwise disposed) as fill within the Commonwealth of Massachusetts subject to the non-degradation

criteria of the MCP (310 CMR 40.0032(3)), in a restricted manner, such that they are sent to a location with equal or higher concentrations of similar contaminants.

Suitable facilities include licensed disposal facilities, approved industrial settings in areas which will be capped or covered with pavement or compost topsoil and seeded, and for purposes of this project should be reused as fill within the project site construction corridor whenever possible. The material cannot be placed in residential and/or environmentally sensitive (e.g., wetlands) areas. Under no circumstances shall contaminated soils be placed in an uncontaminated or less contaminated area (including the area above the groundwater table if this area shows no sign of contamination).

The Contractor shall submit to the Engineer the proposed disposal location for unregulated soils for approval. If such a disposal location is not a licensed disposal facility, the Contractor shall submit to the Engineer analytical data to characterize the disposal area sufficiently to verify that the unregulated material meets the non-degradation requirements of the MCP. In addition, the Contractor shall provide written confirmation from the operator of the proposed disposal location that they have been provided with the analytical data for both the materials to be disposed as well as the Disposal Site characterization and that s/he agrees to accept this material.

A Material Shipping Record or Bill of Lading, as appropriate, shall be used to track the off-site disposal of unregulated soil and a copy, signed by the disposal facility or property owner, shall be provided to the Engineer in order to document legal disposal of the unregulated material.

The cost of on-site disposal of unregulated soil within the project area will be considered incidental to the item of work to which it pertains.

Regulated Soil consists of materials containing measurable levels of OHM that are equal to or exceed the applicable Reportable Concentrations for the site as defined by the MCP, 310 CMR 40.0000 and/or from with the Disposal Site boundary associated with RTN 3-23246.

Regulated soil may be reused on site within the Disposal Site boundary for RTN 3-23246 provided that it meets the appropriate geotechnical criteria established by the Engineer.

Regulated Soil may be reused (as daily or intermediate cover or pre-cap contouring material) or disposed (as buried waste) at lined landfills within the Commonwealth of Massachusetts or at an unlined landfill that is approved by the MassDEP for accepting such material, in accordance with MassDEP Policy #COMM-97-001, or at a similar out-of-state facility. It should be noted that soils which exceed the levels and criteria for disposal at in-state landfills, as outlined in COMM-97-001, may be shipped to an in-state landfill, but require approval from the MassDEP Division of Solid Waste Management and receiving facility. Regulated Soils may also be recycled at a MassDEP approved recycling facility possessing a Class A recycling permit subject to acceptance by the facility and compliance with MassDEP Policy #BWSC-94-400.
Regulated Soil removed from the site for disposal or treatment must be removed via a City LSP approved Bill of Lading, Manifest or applicable material tracking form. This type of facility shall be approved/permitted by the State in which it operates to accept the class of contaminated soil in accordance with all applicable local, state and federal regulations.

Hazardous Waste consists of materials which must be disposed of at a facility permitted and operated in full compliance with Federal Regulation 40 CFR 260-265, Massachusetts Regulation 310 CMR 30.000, Toxic Substances Control Act (TSCA) regulations, or the equivalent regulations of other states, and all other applicable local, state, and federal regulations. All excavated materials classified as hazardous waste shall be disposed of at an out-of-state permitted facility. This facility shall be a RCRA hazardous waste or TSCA facility, or RCRA hazardous waste incinerator. This type of facility shall be approved/permitted by the State in which it operates to accept hazardous waste in accordance with all applicable local, state and federal regulations and shall be permitted to accept all contamination which may be present in the soil excavate. The Contractor shall ensure that, when needed, the facility can accept TSCA waste materials i.e., polychlorinated biphenyls (PCBs).

Hazardous Waste be removed from the site for disposal or treatment via a City LSP approved Uniform Hazardous Waste Manifest.

MONITORING/SAMPLING/TESTING REQUIREMENTS:

Unless already provided in the Environmental Site Conditions Summary, Tufts Street Improvement Project (Atlas, May 2024), the Contractor shall be responsible for monitoring, sampling and testing during and following excavation of contaminated soils to determine the specific class of contaminated material. Additional sampling and analysis may be necessary to meet the requirements of the disposal facility license/permit. The cost of such additional sampling and analysis shall be included in the bid cost for the applicable disposal items. The Contractor shall obtain sufficient information to demonstrate that the contaminated soil meets the disposal criteria set by the receiving facility that will accept the material.

No excavated material will be permanently placed on-site, except to return to the general location it was removed from, or removed for off-site disposal until the results of chemical analyses have been received and the materials have been properly classified. The Contractor shall submit to the Engineer results of field and laboratory chemical analyses tests within seven (7) days after their completion, accompanied by the classification of the material determined by the Contractor, and the intended disposition of the material.

WASTE TRACKING:

Copies of the fully executed Weight Slips/Bills of Lading/Manifests/Material Shipping Records or other material tracking forms received by the Contractor from each disposal facility and for each load disposed of at that facility, shall be submitted to Engineer and the City's LSP within three (3) days of receipt by the Contractor. The Contractor is responsible for preparing and submitting such documents for review and signature by the Engineer and/or City LSP or other appropriate person with signatory authority, three (3) days in advance of transporting soil off-site. The Contractor shall furnish a form attached to each manifest or other material tracking form for all material removed off-site, certifying that the material was delivered to the site approved for the class of material. If the proposed disposition of the material is for reuse within the project

construction corridor, the Contractor shall cooperate with the Engineer to obtain a suitable representative sample(s) of the material to establish its structural characteristics in order to meet the applicable structural requirements as fill for the project.

All material transported off-site shall be loaded by the Contractor into properly licensed and permitted vehicles and transported directly to the selected disposal or recycling facility and be accompanied by the applicable shipping paper. At a minimum, truck bodies must be structurally sound with sealed tail gates, and loads covered with a liner, which shall be placed to form a continuous waterproof tarpaulin to protect the load from wind and rain.

DECONTAMINATION OF EQUIPMENT:

Tools and equipment which are to be taken from and reused off site shall be decontaminated in accordance with applicable local, state and federal regulations. This requirement shall include, but not be limited to, all tools, heavy machinery and excavating and hauling equipment used during excavation, stockpiling and handling of contaminated material. Decontamination of equipment is considered incidental to the applicable excavation item.

REGULATORY REQUIREMENTS:

The Contractor shall be responsible for adhering to regulations, specifications and recognized standard practices related to contaminated material handling during excavation and disposal activities. Work within the Disposal Site boundary for RTN 3--23246 will be performed as a URAM under the supervision of the City's LSP. The City shall not be responsible at any time for the Contractor's violation of pertinent State or Federal regulations or endangerment of laborers and others. The Contractor shall comply with all rules, regulations, laws, permits and ordinances of all authorities having jurisdiction including, but not limited to, MassDEP, the U.S. Environmental Protection Agency, Federal Department of Transportation (DOT), the Commonwealth of Massachusetts and other applicable local, state and federal agencies governing the disposal of contaminated soils.

All labor, materials, equipment and services necessary to make the work comply with such regulations shall be provided by the Contractor without additional cost to The City. Whenever there is a conflict or overlap within the regulations, the most stringent provisions are applicable. The Contractor shall reimburse the City for all costs it incurs, including penalties and/or for fines, as a result of the Contractor's failure to adhere to the regulations, specifications, recognized standard practices, etc., that relate to contaminated material handling, transportation and disposal.

SUBMITTALS:

I. Summary of Sampling Results, Classification of Material and Proposed Disposal Option.

At least 1 week prior to collecting soil samples to support soil management, Contractor shall provide a soil sampling plan describing how samples will be collected, laboratory analytical methods, and data quality objective for review and approval.

Other than already provided in the Environmental Site Conditions Summary, Tufts Street Improvement Project (Atlas, May 2024) soil characterization reports must be submitted to the Engineer for review and approval within 14 days after soil analysis and prior to any disposal off-site. This requirement is on-going throughout the project duration.

Characterization reports will be submitted for all soil, and debris through the sampling and analysis program. Each report will include a site plan which identifies the sampling locations represented in the Report. The Construction Plan sheets may be used as a base plan to record this information. It will outline the material sampling methods. Sampling Results will be presented in tabular format. Each sample will be identified by appropriate identification matching the sample identification shown on the Chain of Custody Record. The sample must also be identified by location (e.g., grid number or stockpile number). For each sample, the following information must be listed: unique laboratory sample identification, the classification (unregulated, regulated, etc.), proposed disposal option for the stockpile or unit of material represented, and all analytical results.

Each characterization report will include the laboratory analytical report and Chain of Custody Record for the samples included in the Report.

II. Stockpiling, Transport, and Disposal.

At least two weeks prior to the start of any excavation activity, the Contractor shall submit the following for review and shall not begin excavation activity until the entire submittal is acceptable to the Engineer and City LSP.

Excavation and Stockpiling Protocol:
Provide a written description of the management protocols for performing excavation and stockpiling and/or direct loading for transport, referencing the locations and methods of excavating and stockpiling excavated material in accordance with Items 180.1 through 180.5.

Disposal and Recycling Facilities:

1. Provide the name, address, applicable licenses and approved waste profile for disposal and recycling location(s) where contaminated soil will be disposed. Present information substantiating the suitability of proposed sites to receive classifications of materials intended to be disposed there, including the ability of the facility to accept anticipated volumes of material.

2. Material should not be sent to facilities which are actively considered by the MassDEP, United States Environmental Protection Agency (EPA) or other responsible agency to be in violation of federal, state or local hazardous waste or hazardous material regulations. The Engineer reserves the right to reject any facility on the basis of poor compliance history.

The City will sign waste profiles, Uniform Hazardous Waste Manifests and other similar documents within 1 week of being provided, contingent upon the City's LSP review supporting their signature.

With at least 1 week's notice, and being provided required information regarding transporter and management facility, the Engineer and City's LSP will provide an MCP Bill of Lading. Contractor will be responsible for coordinating management facility's signature through MassDEP's eDEP submittal system.

MEASUREMENT AND PAYMENT

Disposal of contaminated soil shall be measured for payment by the ton of actual and verified weight of contaminated materials removed and disposed of and associated Uniform Hazardous Waste Manifest, MCP Bill of Lading, or Material Shipping Record signed by the receiving facility. The quantities will be determined only by weight slips issued by and signed by the approved disposal facility. The most cost-effective, legal disposal method shall be used.

ITEM 181.11: Disposal of Unregulated Soil shall be under the Contract Unit Price by the weight, in tons, of contaminated materials removed from the site and transported to and disposed of at an approved location or licensed facility, and includes any and all costs for approvals, permits, fees and taxes, additional testing/characterization required by the facility beyond the standard disposal test set, decontamination procedures, transportation and disposal.

ITEM 181.12: Disposal of Regulated Soil – In-State Facility shall be under the Contract Unit Price by the weight, in tons, of contaminated materials removed from the site and transported to and disposed of at an approved in-state facility, and includes any and all costs for approvals, permits, fees and taxes, testing/characterization required by the facility beyond the standard disposal test set, decontamination procedures, transportation and disposal.

ITEM 181.13: Disposal of Regulated Soil - Out-of-State Facility shall be under the Contract Unit Price by the weight, in tons, of contaminated materials removed from the site and transported to and disposed of at an approved out-of-state facility, and includes any and all costs for approvals, permits, fees and taxes, testing/characterization required by the facility beyond the standard disposal test set, decontamination procedures, transportation and disposal.

ITEM 181.14: Disposal of Hazardous Waste shall be under the Contract Unit Price by the weight, in tons, of hazardous waste removed from the site and transported to and disposed of at

the licensed hazardous waste facility, and includes any and all costs for approvals, permits, fees and taxes, testing/characterization required by the facility beyond the standard disposal test set, decontamination procedures, transportation and disposal.

ITEM 183.1
MANAGEMENT OF GROUNDWATER **LUMP SUM**

This Item addresses the treatment, management, on-site re-infiltration, and disposal of groundwater generated during construction. .

The Contractor is advised that CVOC contaminated groundwater may be encountered within the portion of the work area within the Disposal Site for RTN 3-23246 during dewatering activities. The levels and nature of contamination may vary depending on location and/or depth. It will be the responsibility of the Contractor to ensure that water removed during dewatering operations is recharged to within approximately 25-feet of the location from which it is removed and in a manner that does not change groundwater flow direction or gradient outside the work area in accordance with all applicable laws and regulations and in accordance with this specification. Groundwater re-infiltration shall be completed in such a manner that does not cause migration, erosion, or sediment mounding.

The Engineer or City LSP may require re-charging to be suspended if in their opinion the above requirements are not being met.

The unpermitted discharge of dewatering effluent into the environment (storm drain, surface water body, onto the ground) is a violation of federal and state laws and regulations. If Contractor chooses to the surface or stormwater management system, approvals must be sought from the appropriate federal, state, or local regulatory jurisdiction. The EPA will not specify a treatment system or method, but normally requires that the treated discharge to a storm drain that leads to a surface water body meet Massachusetts Drinking Water Standards.

Construction Dewatering discharges to municipal storm drain system, MassDEP and EPA regulations require a National Pollutant Discharge Elimination System (NPDES) Dewatering and Remediation General Permit (DRGP) effective August 2, 2022). The application requires that operators of proposed new discharges seeking coverage under this general permit submit a Notice of Intent (NOI) to EPA. The Contractor is solely responsible for applying for and obtaining coverage under the NPDES DRGP from EPA and, MassDEP, including the costs associated with sampling and analysis of groundwater and any application fees. The Contractor is required to submit a completed copy of the NOI and DRGP to the Engineer and LSP for approval, prior to commencement of discharge.

Upon permanent cessation of the discharges authorized by the DRGP, the Contractor shall be responsible for submitting a Notice of Termination (NOT) to EPA New England within 30 days of

the permanent cessation. The Contractor is required to submit to Engineer a completed copy of the NOT within 14 days of the permanent cessation of the discharges authorized by the DRGP. All costs and fees associated with the submission of the NOT will be the responsibility of the Contractor.

The Contractor shall be responsible for adhering to regulations, specifications, and recognized standard practices related to contaminated groundwater handling during dewatering activities. Somerville shall not be responsible at any time for the Contractor's violation of pertinent local, state or federal regulations or endangerment of laborers and others. The Contractor shall comply with all rules regulations, laws, permits and ordinances of all authorities having jurisdiction including, but not limited to, MassDEP, the, Massachusetts Water Resources Authority (MWRA), the Commonwealth of Massachusetts and other applicable local, state and federal agencies governing this work.

The Contractor shall be responsible for determining compliance with the requirements of any permit and for any sampling, testing, and disposal required in connection with said permits. The City reserves the right to collect additional samples of dewatered groundwater to determine the contractor's compliance with the Permit's requirements. All laboratory testing is to be performed by a MassDEP certified laboratory for all parameters being tested. Copies of all field and laboratory testing results, reports, etc. required by the permits must be supplied to the Engineer. MassDEP and the permit-granting agency, where applicable, reserve the right to collect additional samples of discharged groundwater to verify compliance with permit requirements.

The bidder shall factor into the payment item all costs associated with infiltration. Bid price shall also include full compensation for labor, materials, maintenance, mobilization, rental and other related costs. Item 183.2 will be used for disposal of used granular-activated carbon canisters.

SUBMITTALS:

At least two (2) weeks prior to initiating work, the Contractor shall submit an excavation dewatering plan for review and approval that includes a detailed description of the approach to dewatering, a description of methodology for limiting the need to dewatering and re-infiltration. If treatment is anticipated, discharge points, sampling frequency, required permits, transporters and waste facilities complete with license numbers, permit numbers, contact person, and address and telephone number that the Contractor plans to utilize for waste disposal. The plan shall be submitted for the record.

If performed, the contractor shall provide all groundwater sampling and analyses, results and reports required by all applicable local, state and federal agencies, if any. The Contractor shall submit to the Engineer for review all plans and documents that must be submitted to the EPA and MassDEP, potential treatment system analytical reports and correspondence. Copies of all permits and approvals and lab analyses and test results associated with groundwater treatment

and/or disposal must be submitted to the Engineer within 3 days of receipt by the Contractor, if any.

MEASUREMENT AND PAYMENT

Payment shall be made at the Lump Sum basis and will cover all work associated with dewatering and re-infiltration, and if performed all groundwater treatment and testing required by discharge permits and regulatory requirements, which price shall be full compensation for all necessary labor and materials, mobilization, maintenance, demobilization of the appropriate unit(s), freight, rental costs, field and laboratory testing costs and permits.

ITEM 201.5
CATCH BASIN – MUNICIPAL STANDARD **EACH**

The work to be done under this Item shall consist of the furnishing and installation, including excavation and backfill of trenches for catch basins, at the locations established by the Engineer, all in accordance with Section 201 of the Standard Specifications and the following:

Catch Basins shall conform to City of Somerville Construction Standards.

Catch basin may have a cover instead of a grate if receiving flow from a drop inlet, as directed by Engineer.

ITEM 202.01
MANHOLE – MUNICIPAL STANDARD **EACH**

The work to be done under this Item shall consist of the furnishing and installation, including excavation and backfill of trenches for manholes, at the locations established by the Engineer, all in accordance with Section 201 of the Standard Specifications and the following:

Manholes shall conform to City of Somerville Construction Standards. Frames and covers shall be City of Somerville style, all conforming to City of Somerville Construction Standards.

ITEM 206.01
DROP INLET – MUNICIPAL STANDARD **EACH**

The work to be done under this Item shall consist of the furnishing and installation, including excavation and backfill of trenches for drop inlets, at the locations established by the Engineer, all in accordance with Section 201 of the Standard Specifications and the following:

Drop inlets shall conform to City of Somerville Construction Standards.

Drop inlets may only discharge to a catch basin. The receiving catch basin often has a cover instead of a grate.

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Woburn, MA 01801
781.932.9400 | oneatlas.com

May 9, 2025

Massachusetts Department of Environmental Protection *via: eDEP*
Bureau of Waste Site Cleanup
15 Presidential Way
Woburn, Massachusetts

SUBJECT: Contained-In Determination
Soil from Tufts Street Right-of-Way Improvements
Somerville, MA
RTN 3-51811
Atlas Project No.: 6000007464

Dear Program Manager:

Atlas Technical Consultants LLC (Atlas) has been retained by the City of Somerville to provide Massachusetts Contingency Plan (310 CMR 40.0000)(MCP) and related Licensed Site Professional (LSP) services to support the Tufts Street Improvement Project. On behalf of the City of Somerville, I have made a "contained-in" determination (CID) following the approach presented in the Massachusetts Department of Environmental Protection's (MassDEP) Technical Update, Considerations for Managing Contaminated Soil: RCRA Land Disposal Restrictions and Contained-In Determination (2010) regarding soil from a portion of the following M.G.L. c. 21E disposal site:

Release Tracking Number:	3-51811
Site Name:	Tufts Street Right-of-Way Improvements
Street Address:	Tufts Street right-of-way from Cross Street to Washington Street
City/Town:	Somerville, MA
Zip Code:	02145

The soil contained the listed hazardous waste(s) with Waste Codes U043, U210 and U228, which MassDEP is authorized to regulate under the Resource Conservation and Recovery Act (RCRA) by the U.S. Environmental Protection Agency (USEPA). However, the soil (check one):

☒ Met all applicable S-1 standards upon removal*; or

☐ Was treated through a method of treatment other than dilution so as to meet all applicable S-1 standards.

*The soil noted herein has been pre-characterized in-situ and has been determined to meet applicable S-1 standards.

The levels of the listed hazardous waste constituents in the soils to be generated are:

Summary of Detected Listed Waste within Contained-In Determination						
Sample Name / Depth	Sample Date	Substance/CAS # / Waste Code	Results (ppm)	MCP Method 1S-1 Standards		
				S-1 Soil & GW-1	S-1 Soil & GW-2	S-1 Soil & GW-3
ATC-8, 5-10'	3/14/24	Tetrachloroethylene (PCE) / 127-18-4 / U210	0.134	1 ppm	4 ppm	100 ppm
50Tuft-B101, 0-1'	2/12/24		0.0023			
50Tuft-B101,3 - 5'	2/12/24		0.015			
50Tuft-B102, 0-1'	2/12/24		0.00048			
50Tuft-B102, 1-3'	2/12/24		0.001			
50Tuft-B104, 0-1'	2/12/24		0.023			
50Tuft-B104, 1-3'	2/12/24		0.015			
50Tuft-B105, 0-1'	2/12/24		0.81			
50Tuft-B105, 1-3'	2/12/24		0.01			
50Tuft-B102, 1-3'	2/12/24	Trichloroethene (TCE) / 79-01-06 / U228	0.00037	0.3	0.3	30
50Tuft-B105, 0-1'	2/12/24	Vinyl Chloride / 75-01-04 / U043	0.053	0.3	0.3	0.3

The City of Somerville Tufts Street Improvement Project is to implement traffic calming and accessibility improvements that will reconstruct sidewalks, install new raised stormwater inlets drains to improve the existing stormwater management system, and repave Tufts Street between Cross Street and Washington Street as part of the City's Pavement and Sidewalk Management Program. Most excavations will be limited to 3 feet below grade with some excavations for drainage structure connections / rehabilitations extending to 5 feet below grade. Groundwater has been observed to range from approximately 7 to 13 feet below grade in the majority of the area where excavation will occur. To the extent practicable, soil will be reused in the area from which it was excavated. The limit of work is shown on attached **Figures 1 and 2.**

Most work is located within a Disposal Site listed by the MassDEP under Release Tracking Number (RTN) 3-23246. **Figure 1** shows the northern extent of the Disposal Site as it relates to limits of work and all the proposed work shown on **Figure 2** is within the Disposal Site. This Disposal Site is associated with a release of tetrachloroethylene, also known as perchloroethylene (PCE), to soil and groundwater from a former drycleaner facility located at the abutting 50 Tufts Street property. Based upon a review of reports submitted to MassDEP for RTN 3-23246 Atlas concludes that the vertical extent of this Disposal Site begins just below the pavement surface and extends to at least 10 feet below grade.

On March 14 and 15, 2024, Atlas supervised the installation of 8 soil borings identified as ATC-1 to ATC-8 for sampling and laboratory analyses of soil to conduct in-situ pre-characterization of soil within the Tufts Street right-of-way. Locations were selected to reflect areas where soil excavation was proposed to support planned work. Soil borings ATC-4 to ATC-8 are located within the Disposal Site. Soil boring ATC-3 is located at the approximate northeast edge of the Disposal Site and borings ATC-1 and ATC-2 are located outside the Disposal Site. Two soil samples from each boring, for a total of sixteen (16) soil samples, were collected. At each boring location, a discrete soil sample was collected by hand auger during preclearing from 0 to 5 feet below grade and using a dedicated acetate liners using a Geoprobe drill rig from 5 to 10 feet below grade surface. Soil boring locations are shown on **Figures 1 and 2.**

Soil samples from each boring were screened for total volatile organic compounds (VOCs), i.e., headspace, with a pre-calibrated photoionization detector (PID) in accordance with the MassDEP jar headspace method.

The soil samples were placed in laboratory provided containers and submitted to Eurofins laboratory under a chain of custody and analyzed for low level volatile organic compounds (VOCs) by EPA Method 8260.

Two sets of composite soil samples were collected from the 8 soil borings. One set (ATC-1 to ATC-8 Composite 0-5') was from the 0 to 5 feet below grade interval and the other set (ATC-1 to ATC-8 Composite 5-10') was from 5 to 10 foot below surface interval. These samples were placed in properly preserved laboratory provided containers and submitted to Eurofins laboratory under a chain-of-custody for the following analyses typically required by soil management facilities:

- Semi-VOCs with low level PAHs (SIMS) by EPA Method 8270;
- PCBs by EPA Method 8082;
- RCRA 8 Metals; TCLP lead;
- Total Petroleum Hydrocarbons by 8100; and
- Corrosivity; Total Organic Carbon; Flashpoint; Reactivity Cyanide and Sulfide; and Conductivity.

The soil analytical results were non-detect for all VOCs at 15 of 16 samples. Only PCE at 0.0314 milligrams per kilogram (mg/kg) was detected in soil boring ATC-8 at 5-10 feet below grade surface. The soil analyses do not exhibit any hazardous waste characteristics pursuant to 310 CMR 30.120. All detected compounds reported were below their MCP Method 1 Standards as were the detection limits for those compounds not detected. A summary of VOC soil data is presented in attached **Table 1**. The associated laboratory report is attached.

Atlas reviewed previous submittals and associated soil data made to the MassDEP for the following RTNs associated with 50 Tufts Street or in the immediate area for data relevant to this CID:

- RTNs 3-23246 / 3-24358 / 3-26114 / 3-35528 for 50 Tufts Street;
- RTNs 3-28231 / 3-30620 associated with MBTA/Green Line Extension work in the area;
- RTN 3-37468 for 31 Tufts Street associated with impacts from 50 Tufts Street; and
- RTN 3-14792 for 60 Tufts Street associated with asbestos only.

Relevant data from soil samples collected near the Tufts Street right-of-way are included on **Table 1** and the summary table above. Due to the age of the original VOC release associated with 50 Tufts Street, completed and ongoing remediation and/or Exposure Pathway Mitigation Measures (EPMM) at 23, 27, 31, 50, and 60 Tufts Street as well as 121 Washington Street, soil data more than 10 years old is not considered representative of current site conditions and was not included in the data summary tables. EPMMs include Active Exposure Pathway Mitigation Measures (AEPMM) and passive subslab venting systems. Furthermore, data was excluded if it was from more than 10 feet below grade or there was more recent data available between it and the right-of-way.

Based upon the above, the only relevant soil data for this CID was found in the Phase V Status Report No. 26 and Remedial Monitoring Report No. 41, 50 Tufts Street (GEI Consultants, Inc., August 2024). This submittal documents how on February 12, 2024, GEI collected shallow soil samples to the northwest and southeast of the 50 Tufts Street building, adjacent to street improvement work zone from 5 soil borings (B101 to B105) advanced up to 5 feet below grade. These soil boring locations are shown on **Figures 1 and 2**. Based upon the detected PCE and vinyl chloride concentrations all being below all their Method 1 Soil Standards as supported by the information presented herein, these soils are eligible for a CID.

Soil data from samples collected from B103 0-1' and B103 1-3' exhibit concentrations of PCE above its Method 1 Standards. Therefore, additional assessments will be performed in the area shown on **Figures 1 and 2** before these soils are managed under this CID. It is estimated that approximately 50 tons (35 CY) of soil will be excavated from the area around B103. In the immediate area of B103, excavation will be limited to what is required to reconstruct the existing sidewalk. The soil may be further characterized as work progresses to see if it meets this CID requirements. This will involve collecting soil samples from excavations in this area and submitting for laboratory CVOC analysis. A soil sample will be collected from the excavation area as work progresses at a rate

of no more than every 15 CY. If the reported CVOC concentrations in a sample are all less than their MCP Method 1 S-1/GW-1/GW-2/GW-3 Standards, the CID will be applicable to the soil represented by this sample.

A summary of VOC soil data identified by Atlas as relevant to this CID is presented in attached **Table 1** and included in the table above. The associated data summary table, figure and laboratory report from GEI's 2024 report previously submitted to MassDEP is also attached.

The soil management activities associated with this CID Petition will be conducted as a Utility-related Release Abatement Measure (URAM) under **RTN 3-51811.** The contract documents for the work estimate that up to 520 tons (approximately 375 cubic yards) of soil will require offsite management from the area represented by the soil data presented herein and covered by this CID, with the potential for an additional 50 tons (35 cubic yards) from around B103 if supported by data collected as work progresses. As noted above, most excess soil will come from less than 3 feet below grade with limited areas where stormwater catch basins are being replaced extending to 5 feet below grade. None of these deeper areas are located adjacent to the area excluded from this CID.

I understand that this "contained-in" determination is subject to a 21-day period during which the determination is subject to review by the MassDEP and that the soil cannot be managed as non-hazardous waste until the 21-day review period passes without objection from MassDEP or USEPA. A copy of the validated and unsigned BWSC-126 Miscellaneous Document Transmittal Form submitted concurrently with this CID is **Attached**.

I also understand that if the soil is to be transported out-of-state, it must first be determined if the operator of the landfill or other receiving facility and the relevant state agency (or the relevant USEPA region, if the state does not administer the RCRA program) are willing to accept contained-in determinations performed by a Massachusetts Licensed Site Professional. In doing so, the process by which "contained-in" determinations are performed in Massachusetts will be explained to the relevant parties and proper documentation of all conversations will be retained.

I, Michael Gitten, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this submittal, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the person or entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate or incomplete information.

Respectfully submitted,
ATLAS

By: Michael Gitten 5/12/25

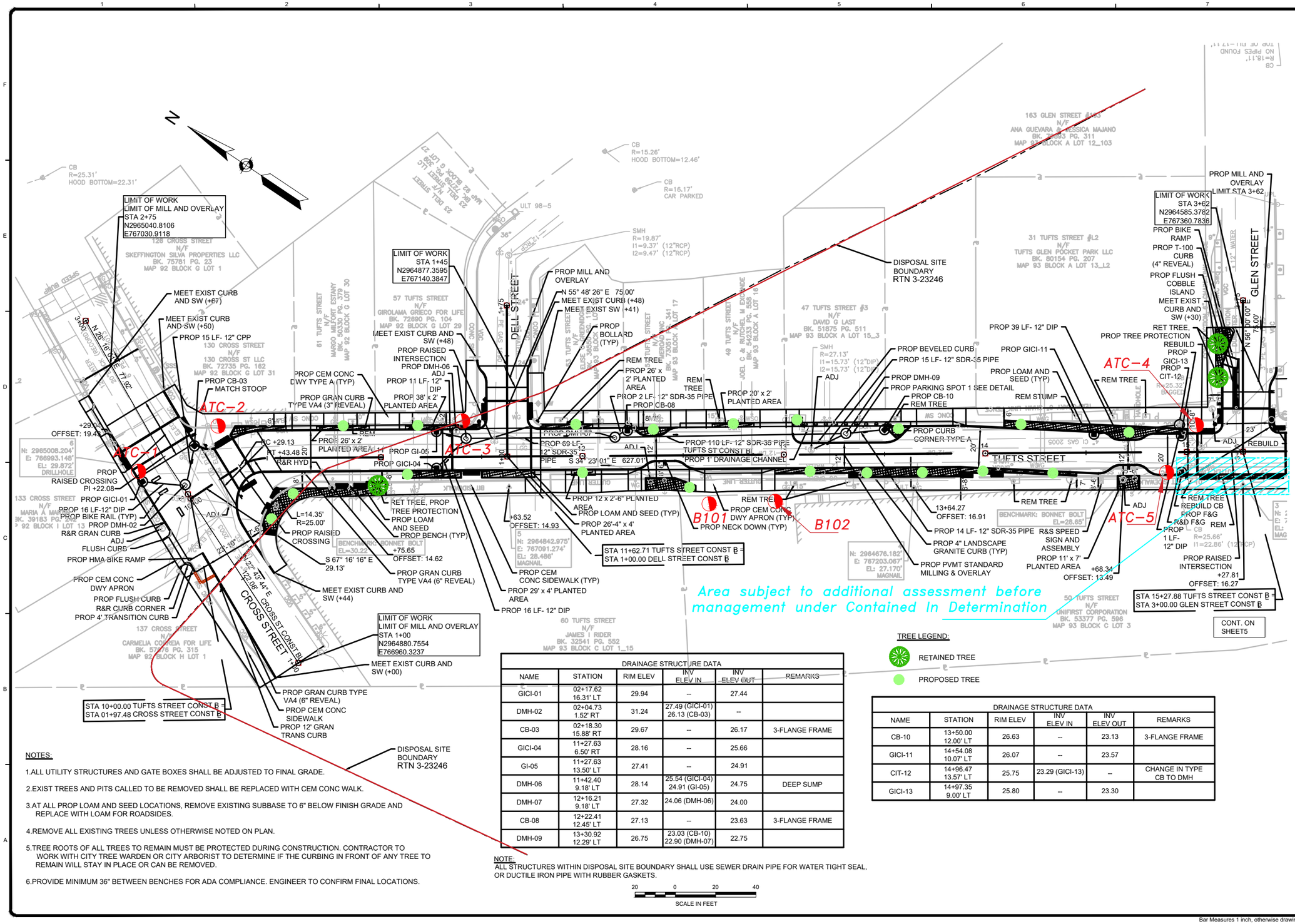
Signature Date

LSP #: 7505
LSP Name: Michael Gitten, LSP
Telephone: 781-404-1439

For: City of Somerville
Name of person or entity

Attachments:
Figure 1 - Northwestern Project Extent
Figure 2 - Southeastern Project Extent
Table 1 - Soil analytical Data Summary
Laboratory Analytical Data Report – Atlas
Supporting Information from RTN 3-23246
Draft BWSC-126

Cc: Rebecca Wright, Somerville rwright@somervillema.gov File: cid petition-somerville-tufts st improvements-5.9.25



DRAINAGE STRUCTURE DATA					
NAME	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
GICI-01	02+17.62 16.31' LT	29.94	--	27.44	
DMH-02	02+04.73 1.52' RT	31.24	27.49 (GICI-01) 26.13 (CB-03)	--	
CB-03	02+18.30 15.88' RT	29.67	--	26.17	3-FLANGE FRAME
GICI-04	11+27.63 6.50' RT	28.16	--	25.66	
GI-05	11+27.63 13.50' LT	27.41	--	24.91	
DMH-06	11+42.40 9.18' LT	28.14	25.54 (GICI-04) 24.91 (GI-05)	24.75	DEEP SUMP
DMH-07	12+16.21 9.18' LT	27.32	24.06 (DMH-06)	24.00	
CB-08	12+22.41 12.45' LT	27.13	--	23.63	3-FLANGE FRAME
DMH-09	13+30.92 12.29' LT	26.75	23.03 (CB-10) 22.90 (DMH-07)	22.75	

NOTE:
ALL STRUCTURES WITHIN DISPOSAL SITE BOUNDARY SHALL USE SEWER DRAIN PIPE FOR WATER TIGHT SEAL, OR DUCTILE IRON PIPE WITH RUBBER GASKETS.

DRAINAGE STRUCTURE DATA					
NAME	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
CB-10	13+50.00 12.00' LT	26.63	--	23.13	3-FLANGE FRAME
GICI-11	14+54.08 10.07' LT	26.07	--	23.57	
CIT-12	14+96.47 13.57' LT	25.75	23.29 (GICI-13)	--	CHANGE IN TYPE CB TO DMH
GICI-13	14+97.35 9.00' LT	25.80	--	23.30	

NOTES:

1. ALL UTILITY STRUCTURES AND GATE BOXES SHALL BE ADJUSTED TO FINAL GRADE.
2. EXIST TREES AND PITS CALLED TO BE REMOVED SHALL BE REPLACED WITH CEM CONC WALK.
3. AT ALL PROP LOAM AND SEED LOCATIONS, REMOVE EXISTING SUBBASE TO 6" BELOW FINISH GRADE AND REPLACE WITH LOAM FOR ROADSIDES.
4. REMOVE ALL EXISTING TREES UNLESS OTHERWISE NOTED ON PLAN.
5. TREE ROOTS OF ALL TREES TO REMAIN MUST BE PROTECTED DURING CONSTRUCTION. CONTRACTOR TO WORK WITH CITY TREE WARDEN OR CITY ARBORIST TO DETERMINE IF THE CURBING IN FRONT OF ANY TREE TO REMAIN WILL STAY IN PLACE OR CAN BE REMOVED.
6. PROVIDE MINIMUM 36" BETWEEN BENCHES FOR ADA COMPLIANCE. ENGINEER TO CONFIRM FINAL LOCATIONS.

20 0 20 40
SCALE IN FEET

Bar Measures 1 inch, otherwise drawing not to scale

TETRA TECH
www.tetratech.com
100 Nickerson Road
Marlborough, Massachusetts 01752
Phone: (508) 786-2200 Fax: (508) 786-2201

ATLAS

MARK	DATE	DESCRIPTION	BY
0	5/24/24	80% DESIGN SUBMISSION	KW
1	9/19/24	100% DESIGN SUBMISSION	KW
2	12/17/24	PSE SUBMISSION	KW

City of Somerville
2024 Street Improvements
Somerville, Massachusetts
Tufts Street
General Plan

PROJ: 143-314177-23002
DESN: KW
DRWN: JJ
CHKD: EP

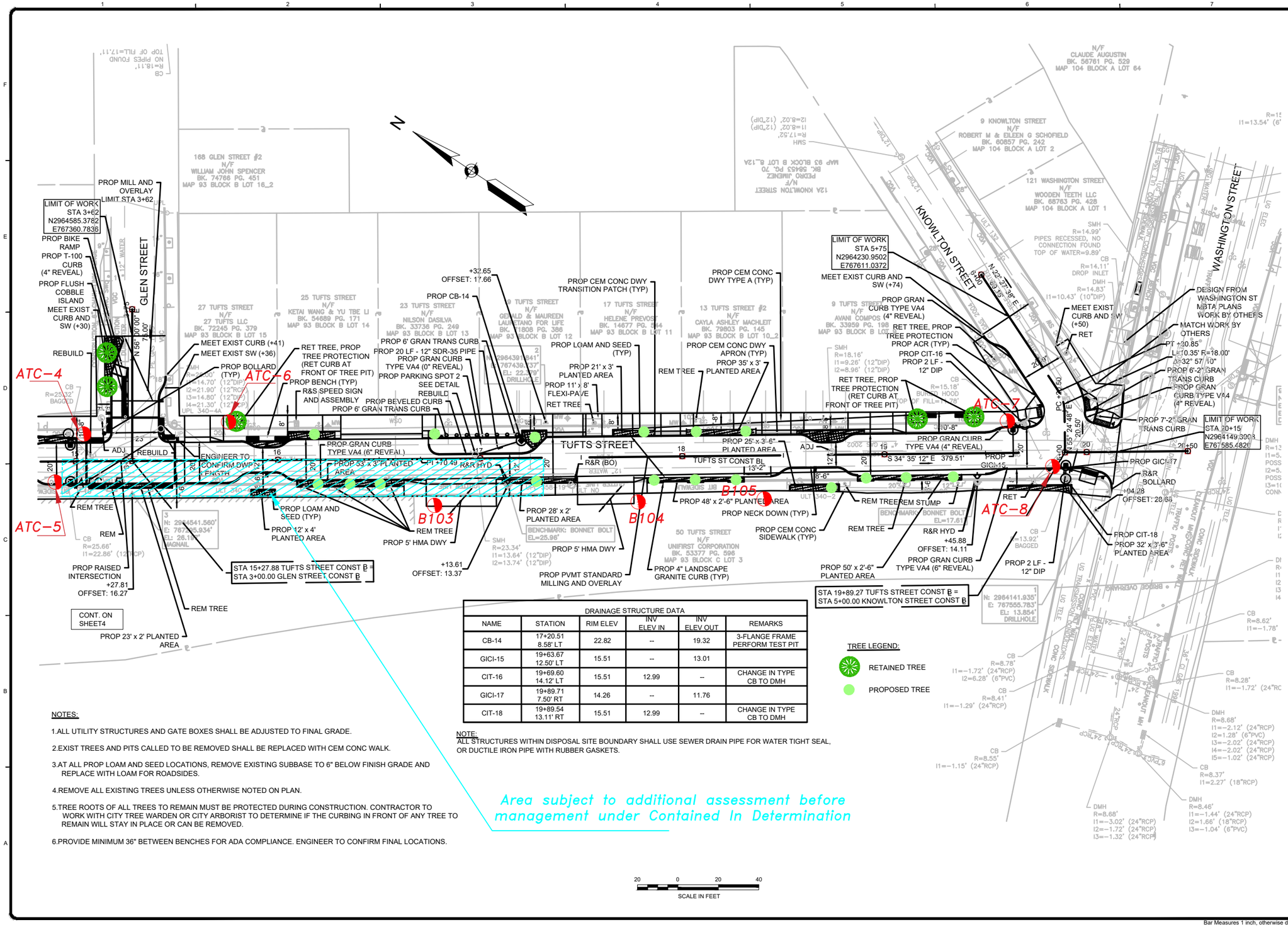
4 OF 19

Contained In Determination Petition
Northwestern Project Extent
City of Somerville
Tufts Street Right of Way Improvments
Somerville, MA

Project Number: 6000007464
Date: 05/08/2025
Drn. By: AGL
Ckd. By: MSG
Scale: AS SHOWN
Figure: 1

Property of Atlas Legal

\\CORP.ATC.INT\ATC_FILESERVER\WOB_FILESERVER\ENVIRO\CLIENTS - PROJECTSN - S\SOMERVILLE\TUFTS STREET\FIGURES & PLANS\CAD\DRAWING1.DWG, FIG 2 - PAGE 4
12/16/2024 10:21:37 AM - P:\314177\143-314177-23002\CAD\SHEETFILES\TUFTS ST\TCP01.DWG - JAKUBAJTYS, JESSE


GLEN STREET
TUFTS STREET
KNOWLTON STREET
WASHINGTON STREET
LIMIT OF WORK STA 3+62 N2964585.3782 E767360.7836
PROP MILL AND OVERLAY LIMIT STA 3+62
PROP BIKE RAMP
PROP T-100 CURB (4" REVEAL)
PROP FLUSH COBBLE ISLAND MEET EXIST CURB AND SW (+30)
REBUILD
MEET EXIST CURB (+41)
MEET EXIST SW (+36)
PROP BOLLARD (TYP)
PROP BENCH (TYP)
RET TREE, PROP TREE PROTECTION (RET CURB AT FRONT OF TREE PIT)
R&S SPEED SIGN AND ASSEMBLY
PROP BEVELED CURB
PROP 6' GRAN TRANS CURB
PROP 20 LF - 12" SDR-35 PIPE
PROP GRAN CURB TYPE VA4 (0" REVEAL)
PROP PARKING SPOT 2 SEE DETAIL
REBUILD
PROP CB-14
+32.65 OFFSET: 17.66
PROP CEM CONC DWY TRANSITION PATCH (TYP)
PROP LOAM AND SEED (TYP)
PROP 21' x 3' PLANTED AREA
PROP 11' x 8' FLEXI-PAVE
RET TREE
REM TREE
PROP CEM CONC DWY APRON (TYP)
PROP 35' x 3' PLANTED AREA
PROP CEM CONC DWY TYPE A (TYP)
LIMIT OF WORK STA 5+75 N2964230.9502 E767611.0372
MEET EXIST CURB AND SW (+74)
PROP GRAN CURB TYPE VA4 (4" REVEAL)
RET TREE, PROP TREE PROTECTION
PROP ACR (TYP)
PROP CIT-16
PROP 2 LF - 12" DIP
RET TREE, PROP TREE PROTECTION (RET CURB AT FRONT OF TREE PIT)
PROP GRAN CURB TYPE VA4 (4" REVEAL)
MEET EXIST CURB AND SW (+50)
RET
DESIGN FROM WASHINGTON ST M3TA PLANS WORK BY OTHERS
MATCH WORK BY OTHERS
PROP 6'-2" GRAN TRANS CURB
PROP GRAN CURB TYPE VA4 (4" REVEAL)
PROP 7'-2" GRAN TRANS CURB
LIMIT OF WORK STA 20+15 N2964149.3903 E767585.4820
PROP GICI-17
R&R BOLLARD
PROP CIT-18
PROP 32' x 2'-6" PLANTED AREA
PROP 2 LF - 12" DIP
PROP GRAN CURB TYPE VA4 (6" REVEAL)
PROP 50' x 2'-6" PLANTED AREA
PROP 25' x 3'-6" PLANTED AREA
PROP 48' x 2'-6" PLANTED AREA
PROP NECK DOWN (TYP)
PROP CEM CONC SIDEWALK (TYP)
PROP 4" LANDSCAPE GRANITE CURB (TYP)
PROP PVMT STANDARD MILLING AND OVERLAY
PROP 5' HMA DWY
PROP 28' x 2' PLANTED AREA
PROP 12' x 4' PLANTED AREA
PROP 5' HMA DWY
PROP 23' x 2' PLANTED AREA
PROP RAISED INTERSECTION +27.81 OFFSET: 16.27
CONT. ON SHEET4
STA 15+27.88 TUFTS STREET CONST B = STA 3+00.00 GLEN STREET CONST B
STA 19+89.27 TUFTS STREET CONST B = STA 5+00.00 KNOWLTON STREET CONST B
+13.61 OFFSET: 13.37
+04.28 OFFSET: 28.69
+45.88 OFFSET: 14.11
REM TREE
REM STUMP
R&R HYD
ATC-4
ATC-5
ATC-6
ATC-7
ATC-8
B103
B104
B105
168 GLEN STREET #2 N/F WILLIAM JOHN SPENCER BK. 74766 PG. 451 MAP 93 BLOCK B LOT 16_2
27 TUFTS STREET N/F 27 TUFTS LLC BK. 72245 PG. 379 MAP 93 BLOCK B LOT 15
25 TUFTS STREET N/F KETAI WANG & YU TBE LI BK. 54689 PG. 171 MAP 93 BLOCK B LOT 14
23 TUFTS STREET N/F NILSON DASILVA BK. 33736 PG. 249 MAP 93 BLOCK B LOT 13
9 TUFTS STREET N/F GERALD & MAUREEN LAURETANO FOR LIFE BK. 71808 PG. 386 MAP 93 BLOCK B LOT 12
17 TUFTS STREET N/F HELENE PREVOST BK. 14677 PG. 344 MAP 93 BLOCK B LOT 11
13 TUFTS STREET #2 N/F CAYLA ASHLEY MACHLEIT BK. 79803 PG. 145 MAP 93 BLOCK B LOT 10_2
9 TUFTS STREET N/F AVANI COMPOS BK. 33959 PG. 198 MAP 93 BLOCK B LOT 9
50 TUFTS STREET N/F UNIFIRST CORPORATION BK. 53377 PG. 598 MAP 93 BLOCK C LOT 3
9 KNOWLTON STREET N/F ROBERT M & EILEEN G SCHOFIELD BK. 60857 PG. 242 MAP 104 BLOCK A LOT 2
121 WASHINGTON STREET N/F WOODEN TEETH LLC BK. 68763 PG. 428 MAP 104 BLOCK A LOT 1
CLAUDE AUGUSTIN BK. 56761 PG. 529 MAP 104 BLOCK A LOT 64
12A KNOWLTON STREET PEDRO JIMENEZ BK. 56453 PG. 70 MAP 93 BLOCK B LOT 12A
TOP OF FILL=17.11'
NO PIPES FOUND
BENCHMARK: BONNET BOLT EL=25.96'
BENCHMARK: BONNET BOLT EL=17.61'
DRAINAGE STRUCTURE DATA
NAME | STATION | RIM ELEV | INV ELEV IN | INV ELEV OUT | REMARKS
CB-14 | 17+20.51 8.58' LT | 22.82 | -- | 19.32 | 3-FLANGE FRAME PERFORM TEST PIT
GICI-15 | 19+63.67 12.50' LT | 15.51 | -- | 13.01 |
CIT-16 | 19+69.60 14.12' LT | 15.51 | 12.99 | -- | CHANGE IN TYPE CB TO DMH
GICI-17 | 19+89.71 7.50' RT | 14.26 | -- | 11.76 |
CIT-18 | 19+89.54 13.11' RT | 15.51 | 12.99 | -- | CHANGE IN TYPE CB TO DMH
TREE LEGEND:
RETAINED TREE
PROPOSED TREE
NOTES:
1.ALL UTILITY STRUCTURES AND GATE BOXES SHALL BE ADJUSTED TO FINAL GRADE.
2.EXIST TREES AND PITS CALLED TO BE REMOVED SHALL BE REPLACED WITH CEM CONC WALK.
3.AT ALL PROP LOAM AND SEED LOCATIONS, REMOVE EXISTING SUBBASE TO 6" BELOW FINISH GRADE AND REPLACE WITH LOAM FOR ROADSIDES.
4.REMOVE ALL EXISTING TREES UNLESS OTHERWISE NOTED ON PLAN.
5.TREE ROOTS OF ALL TREES TO REMAIN MUST BE PROTECTED DURING CONSTRUCTION. CONTRACTOR TO WORK WITH CITY TREE WARDEN OR CITY ARBORIST TO DETERMINE IF THE CURBING IN FRONT OF ANY TREE TO REMAIN WILL STAY IN PLACE OR CAN BE REMOVED.
6.PROVIDE MINIMUM 36" BETWEEN BENCHES FOR ADA COMPLIANCE. ENGINEER TO CONFIRM FINAL LOCATIONS.
NOTE:
ALL STRUCTURES WITHIN DISPOSAL SITE BOUNDARY SHALL USE SEWER DRAIN PIPE FOR WATER TIGHT SEAL, OR DUCTILE IRON PIPE WITH RUBBER GASKETS.
Area subject to additional assessment before management under Contained In Determination
20 0 20 40
SCALE IN FEET

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www.tetratech.com
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Marlborough, Massachusetts 01752
Phone: (508) 786-2200 Fax: (508) 786-2201

ATLAS

MARK	DATE	DESCRIPTION	BY
0	5/24/24	90% DESIGN SUBMISSION	KW
1	6/24/24	100% DESIGN SUBMISSION	KW
2	2/17/25	PS&E SUBMISSION	KW

City of Somerville
2024 Street Improvements
Somerville, Massachusetts
Tufts Street General Plan

PROJ: 143-314177-23002
DESN: KW
DRWN: JJ
CHKD: EP

5 OF 19

Contained In Determination Petition
Southeastern Project Extent
City of Somerville
Tufts Street Right of Way Improvments
Somerville, MA

Project Number: 6000007464
Date: 05/08/2025
Drn. By: AGL
Ckd. By: MSG
Scale: AS SHOWN
Figure: 2

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Bar Measures 1 inch, otherwise drawing not to scale

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12/16/2024 10:22:03 AM - P:\314177\143-314177-23002\CAD\SHEETFILES\TUFTS STITCP01.DWG - JAKUBAJTYS, JESSE

Table 1 - Soil Analytical Data Summary
Tufts Street - Somerville, MA

	MCP Method 1 Standards			ATC-1	ATC-1	ATC-2	ATC-2	ATC-3	ATC-3	ATC-4	ATC-4	ATC-5	ATC-5	ATC-6	ATC-6	ATC-7
Laboratory ID				**620-17450-5**	**620-17450-6**	**620-17450-3**	**620-17450-4**	620-17450-1	620-17450-2	**620-17450-15**	**620-17450-16**	**620-17450-17**	**620-17450-18**	**620-17450-13**	**620-17450-14**	**620-17450-11**
Sample Depth (feet)	**S-1/GW-1**	**S-1/GW-2**	**S-1/GW-3**	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**
Sample Collection Date				3/15/24	3/15/24	3/15/24	3/15/24	3/15/24	3/15/24	3/14/24	3/14/24	3/14/24	3/14/24	3/14/24	3/14/24	3/14/24
units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Headspace PID Reading (ppmv)				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Volatile Organic Compounds (VOCs) by EPA Method 8260C (mg/kg)																
Tetrachloroethene (PCE)	1	4	100	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67
Trichloroethene (TCE)	0.3	0.3	30	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67
cis-1,2-Dichloroethene	0.3	0.1	100	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67
trans-1,2-Dichloroethane	1	1	500	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67
1,2-Dichloroethane (total)	0.1	0.1	30	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67
Vinyl chloride	0.3	0.3	0.3	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67
Chlorobenzene	1	3	100	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67
Methylene Chloride(Dichloromethane)	0.1	3	300	< 0.00938	< 0.0106	<0.0109	< 0.0128	< 0.0197	< 0.0103	< 0.0101	< 0.0105	< 0.0985	< 0.0887	< 0.0104	< 0.0115	< 0.00934
Toluene	30	500	500	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67

Notes:
MCP = Massachusetts Contingency Plan; 310 CMR 40.0000 (3/1/24)
mg/Kg = milligrams per kilogram
Bold indicates detected above laboratory method reporting limit
Green shading indicates above Method 1 S-1 GW-1 Standard
Yellow shading indicates above Method 1 S-1/GW-1 and S-1/GW-2 Standard
NA = Not Analyzed

Table 1 - Soil Analytical Data Summary
Tufts Street - Somerville, MA

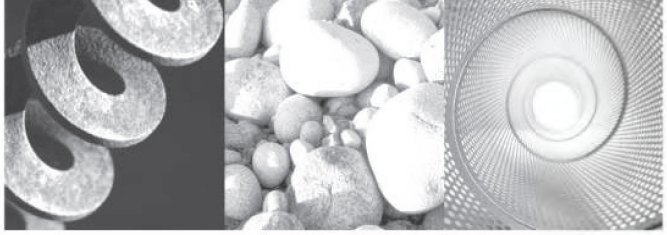
	MCP Method 1 Standards			ATC-7	ATC-8	ATC-8	ATC-1 to ATC-8 Composite	ATC-1 to ATC-8 Composite	50TUFT-B101	50TUFT-B101	50TUFT-B101	50TUFT-B102	50TUFT-B102	50TUFT-B103 (Not included in CID)	50TUFT-B103 (Not included in CID)	50TUFT-B103 (Not included in CID)
Laboratory ID				620-17450-12	620-17450-9	620-17450-10	620-17450-7	620-17450-8	L2408101-01	L2408101-02	L2408101-03	L2408101-04	L2408101-05	L2408101-06	L2408101-07	L2408101-08
Sample Depth (feet)	S-1/GW-1	S-1/GW-2	S-1/GW-3	5-10	0-5	5-10	0-5	5-10	0-1	1-3	3-5	0-1	1-3	0-1	1-3	3-5
Sample Collection Date				3/14/24	3/14/24	3/14/24	3/15/24	3/15/24	2/12/24	2/12/24	2/12/24	2/12/24	2/12/24	2/12/24	2/12/24	2/12/24
units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Headspace PID Reading (ppmv)				0.0	0.0	0.0	NA	NA	0.0	0.0	0.0	0.0	0.1	0.6	21.8	0.1
Volatile Organic Compounds (VOCs) by EPA Method 8260C (mg/kg)																
Tetrachloroethene (PCE)	1	4	100	< 0.0126	< 0.00619	**0.0134**	NA	NA	**0.0023**	<0.00033	**0.015**	**0.00048**	**0.001**	**100**	**2.8**	**0.00052**
Trichloroethene (TCE)	0.3	0.3	30	< 0.0126	< 0.00619	< 0.00494	NA	NA	<0.00037	<0.00033	<0.00026	<0.00032	**0.00037**	**0.24**	<0.031	<0.00032
cis-1,2-Dichloroethene	0.3	0.1	100	< 0.0126	< 0.00619	< 0.00494	NA	NA	<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	**0.094**	<0.061	<0.00063
trans-1,2-Dichloroethane	1	1	500	< 0.0126	< 0.00619	< 0.00494	NA	NA	<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	<0.046	<0.061	<0.00063
1,2-Dichloroethane (total)	0.1	0.1	30	< 0.0126	< 0.00619	< 0.00494	NA	NA	<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	**0.094**	<0.061	<0.00063
Vinyl chloride	0.3	0.3	0.3	< 0.0126	< 0.00619	< 0.00494	NA	NA	<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	<0.046	<0.061	<0.00063
Chlorobenzene	1	3	100	< 0.0126	< 0.00619	< 0.00494	NA	NA	<0.00037	<0.00033	<0.00026	<0.00032	<0.00029	<0.023	<0.031	<0.00032
Methylene Chloride(Dichloromethane)	0.1	3	300	< 0.0253	< 0.0124	< 0.00988	NA	NA	<0.0074	<0.0066	<0.0051	<0.0064	<0.0029	<0.230	<0.310	<0.0063
Toluene	30	500	500	< 0.0126	< 0.00619	< 0.00494	NA	NA	<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	<0.046	<0.061	<0.00063

Notes:
MCP = Massachusetts Contingency Plan; 310 CMR 40.0000 (3/1/24)
mg/Kg = milligrams per kilogram
Bold indicates detected above laboratory method reporting limit
Green shading indicates above Method 1 S-1 GW-1 Standard
Yellow shading indicates above Method 1 S-1/GW-1 and S-1/GW-2 Standard
NA = Not Analyzed

Table 1 - Soil Analytical Data Summary
Tufts Street - Somerville, MA

	MCP Method 1 Standards			50TUFT-B104	50TUFT-B104	50TUFT-B104	50TUFT-B105	50TUFT-B105
Laboratory ID				**L2408101-09**	**L2408101-10**	**L2408101-11**	**L2408101-12**	**L2408101-13**
Sample Depth (feet)	**S-1/GW-1**	**S-1/GW-2**	**S-1/GW-3**	**0-1**	**1-3**	**3-5**	**0-1**	**1-3**
Sample Collection Date				2/12/24	2/12/24	2/12/24	2/12/24	2/12/24
units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Headspace PID Reading (ppmv)				0.1	0.9	0.3	0.0	0.1
Volatile Organic Compounds (VOCs) by EPA Method 8260C (mg/kg)								
Tetrachloroethene (PCE)	1	4	100	**0.023**	**0.015**	**0.0024**	**0.81**	**0.01**
Trichloroethene (TCE)	0.3	0.3	30	<0.00029	<0.00033	<0.00044	<0.022	<0.00061
cis-1,2-Dichloroethene	0.3	0.1	100	<0.00057	<0.00067	<0.00088	<0.044	<0.0012
trans-1,2-Dichloroethane	1	1	500	<0.00057	<0.00067	<0.00088	<0.044	<0.0012
1,2-Dichloroethane (total)	0.1	0.1	30	<0.00057	<0.00067	<0.00088	<0.044	<0.0012
Vinyl chloride	0.3	0.3	0.3	<0.00057	<0.00067	<0.00088	**0.053**	<0.0012
Chlorobenzene	1	3	100	<0.00029	<0.00033	<0.00044	<0.022	<0.00061
Methylene Chloride(Dichloromethane)	0.1	3	300	<0.0057	<0.0067	<0.0088	<0.220	<0.0061
Toluene	30	500	500	<0.00057	<0.00067	<0.00088	**0.053**	<0.0012

Notes:
MCP = Massachusetts Contingency Plan; 310 CMR 40.0000 (3/1/24)
mg/Kg = milligrams per kilogram
Bold indicates detected above laboratory method reporting limit
Green shading indicates above Method 1 S-1 GW-1 Standard
Yellow shading indicates above Method 1 S-1/GW-1 and S-1/GW-2 Standard
NA = Not Analyzed



GEI Consultants

MassDEP RTN 3-23246

Phase V Status Report No. 26 and Remedial Monitoring Report No. 41

50 Tufts Street, Somerville, Massachusetts

Submitted to:
UniFirst Corporation
68 Jonspin Road
Wilmington, MA 01887

Submitted by:
GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801
781.721.4000

August 7, 2024
Project No. 04516-3

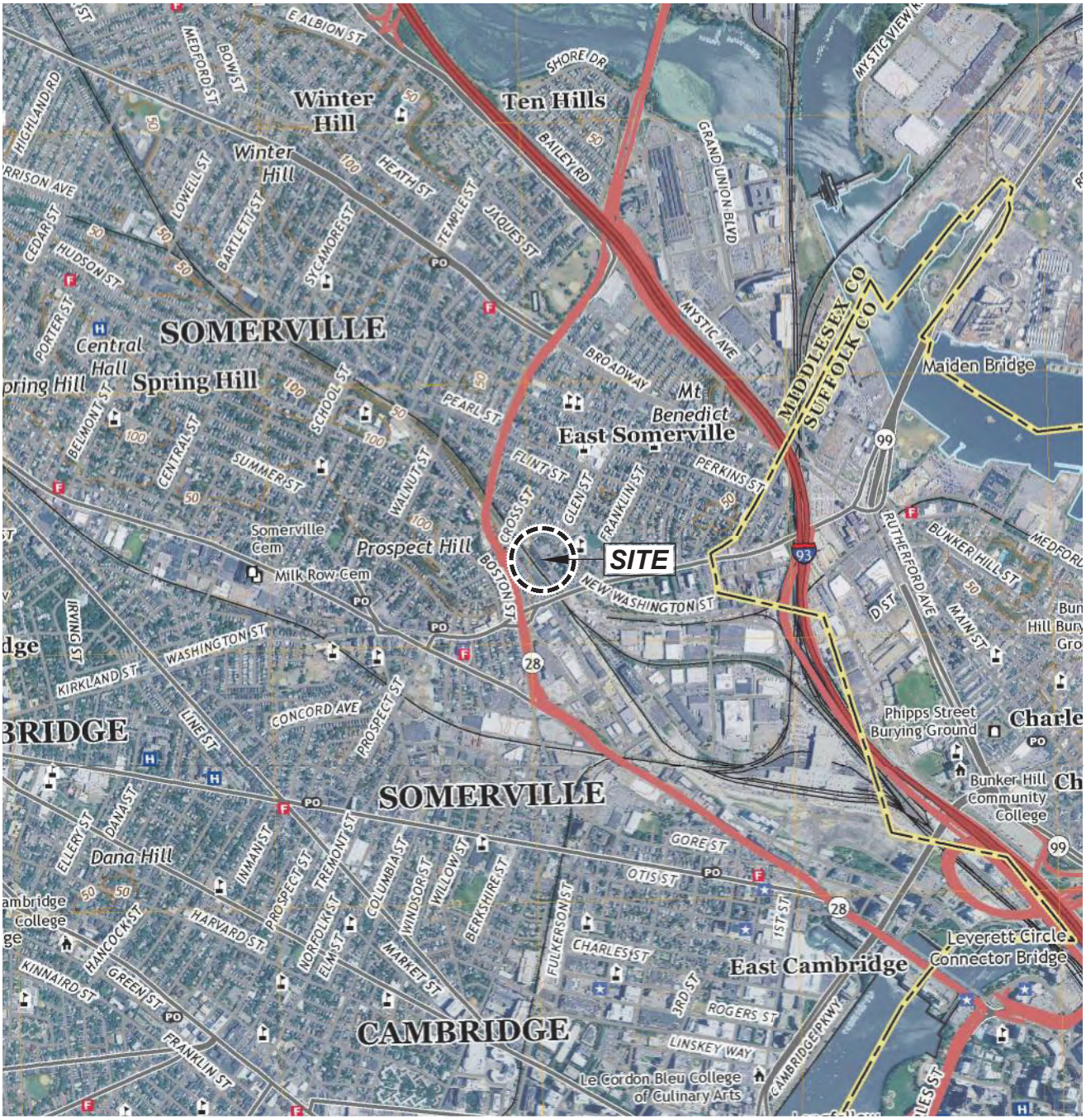
Christopher O. Coner, CHMM
Project Manager

Ileen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President

Table 10-1. Chemical Testing Results - 50 Tufts Street Shallow Soil
Phase V Status Report No. 26 and Remedial Monitoring Report No. 41
50 Tufts Street
Somerville, Massachusetts

			Sample ID:	50TUFT-B101(0-1)	50TUFT-B101(1-3)	50TUFT-B101(3-5)	50TUFT-B102(0-1)	50TUFT-B102(1-3)	50TUFT-B103(0-1)	50TUFT-B103(1-3)	50TUFT-B103(3-5)	50TUFT-B104(0-1)	50TUFT-B104(1-3)	50TUFT-B104(3-5)	50TUFT-B105(0-1)	50TUFT-B105(1-3)
			Sample Date:	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024
			Sample Depth (ft):	0-1	1-3	3-5	0-1	1-3	0-1	1-3	3-5	0-1	1-3	3-5	0-1	1-3
Analyte	**MCP Upper Concentration Limit (UCL)**	**Units**														
Volatile Organics Compounds (VOCs)		mg/kg														
1,2-Dichloroethene, Total			<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	0.094	<0.061	<0.00063	<0.00057	<0.00067	<0.00088	<0.044	<0.0012
cis-1,2-Dichloroethene	5000		<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	0.094	<0.061	<0.00063	<0.00057	<0.00067	<0.00088	<0.044	<0.0012
Tetrachloroethene	10000		0.0023	<0.00033	0.015	0.00048	0.001	100	2.8	0.00052	0.023	0.015	0.0024	0.81	0.01
Toluene	10000		<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	<0.046	<0.061	<0.00063	<0.00057	<0.00067	<0.00088	0.053	<0.0012
Trichloroethene	600		<0.00037	<0.00033	<0.00026	<0.00032	0.00037	0.24	<0.031	<0.00032	<0.00029	<0.00033	<0.00044	<0.022	<0.00061
General Chemistry																
Solids, Total		%	80	89.7	91.1	93.6	91.6	90.1	81.4	85.7	90.8	79.6	82.3	92.1	82.8

Figures



0 1000 2000 4000 6000

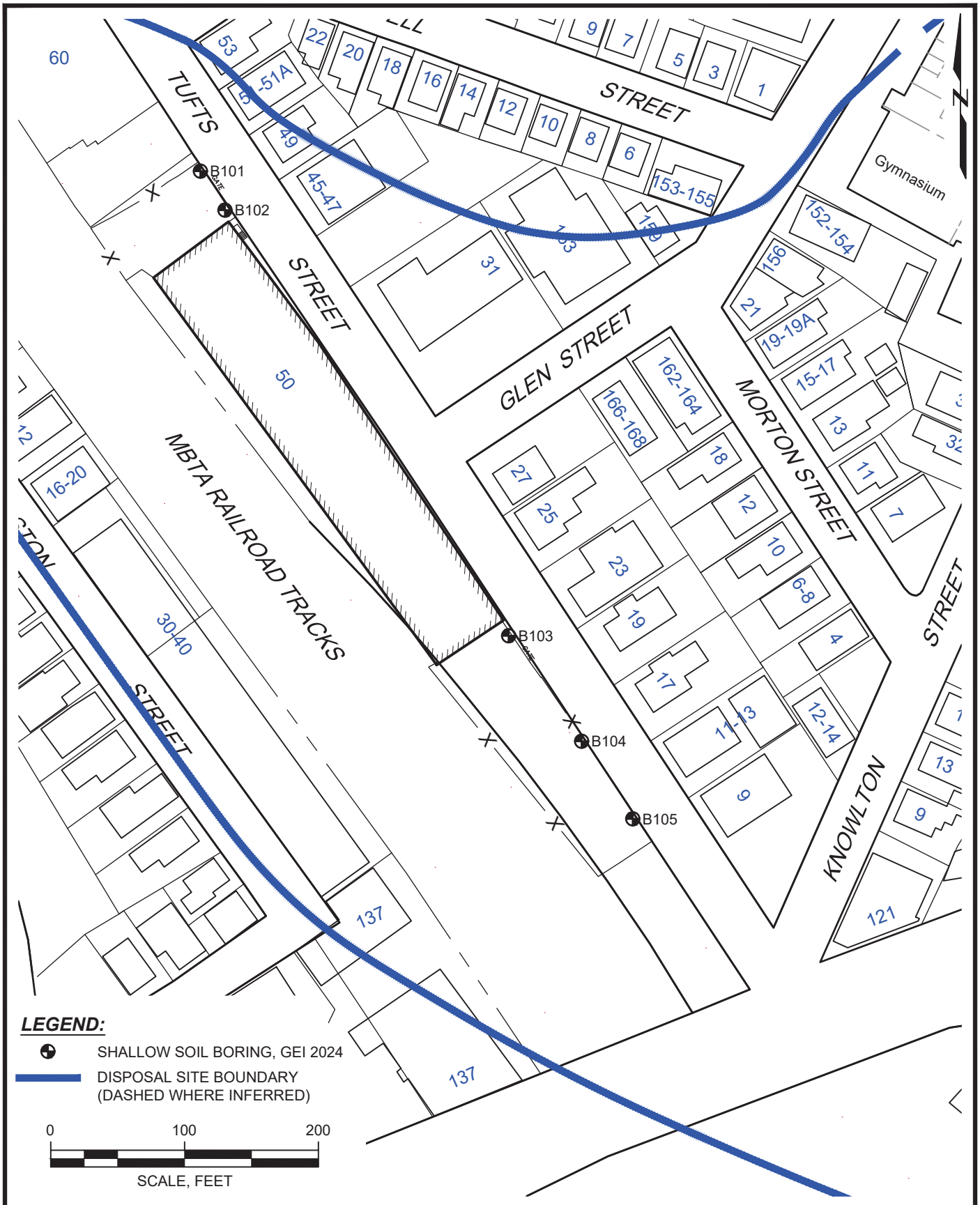
SCALE, FEET

This Image is from U.S.G.S. Topographic 7.5 Minute Series
Boston North, MA Quadrangle, 2018.
Datum is North American Vertical Datum of 1988 (NAVD88).
Contour Interval is 10 Feet.

MASSACHUSETTS
QUADRANGLE LOCATION

Phase V Status Report No. 26 and Remedial Monitoring Report No. 41 50 Tufts Street Somerville, Massachusetts	GEI Consultants	SITE LOCATION MAP
UniFirst Corporation Wilmington, Massachusetts	Project 04516-3	August 2024 Fig. 1

B:\Private\04516\#Drafting\04516-3\Phase V SRs & RMRs\045163 Ph V SR Fig 1-1 slm



Phase V Status Report No. 26 and RMR No. 41 50 Tufts Street Somerville, Massachusetts	GEI Consultants	50 TUFTS STREET SHALLOW SOIL BORING PLAN
Wooden Teeth LLC Wilmington, Massachusetts	Project 045163	August 2024 Fig. 10-1

CLINGEN, PAUL B:\Private\04516\#Drafting\04516-3\Phase V SRs & RMRs\045163 PhV SR SHALLOW BORINGS.dwg - 7/10/2024

ANALYTICAL REPORT

Lab Number:	L2408101
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	TUFTS STREET
Project Number:	045163
Report Date:	02/21/24

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2408101-01	50TUFT-B101(0-1)	SOIL	SOMERVILLE, MA	02/12/24 08:30	02/14/24
L2408101-02	50TUFT-B101(1-3)	SOIL	SOMERVILLE, MA	02/12/24 08:31	02/14/24
L2408101-03	50TUFT-B101(3-5)	SOIL	SOMERVILLE, MA	02/12/24 08:32	02/14/24
L2408101-04	50TUFT-B102(0-1)	SOIL	SOMERVILLE, MA	02/12/24 09:00	02/14/24
L2408101-05	50TUFT-B102(1-3)	SOIL	SOMERVILLE, MA	02/12/24 09:01	02/14/24
L2408101-06	50TUFT-B103(0-1)	SOIL	SOMERVILLE, MA	02/12/24 09:30	02/14/24
L2408101-07	50TUFT-B103(1-3)	SOIL	SOMERVILLE, MA	02/12/24 09:31	02/14/24
L2408101-08	50TUFT-B103(3-5)	SOIL	SOMERVILLE, MA	02/12/24 09:32	02/14/24
L2408101-09	50TUFT-B104(0-1)	SOIL	SOMERVILLE, MA	02/12/24 10:00	02/14/24
L2408101-10	50TUFT-B104(1-3)	SOIL	SOMERVILLE, MA	02/12/24 10:01	02/14/24
L2408101-11	50TUFT-B104(3-5)	SOIL	SOMERVILLE, MA	02/12/24 10:02	02/14/24
L2408101-12	50TUFT-B105(0-1)	SOIL	SOMERVILLE, MA	02/12/24 11:00	02/14/24
L2408101-13	50TUFT-B105(1-3)	SOIL	SOMERVILLE, MA	02/12/24 11:01	02/14/24

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	TUFTS STREET	**Lab Number:**	L2408101
Project Number:	045163	**Report Date:**	02/21/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: TUFTS STREET **Lab Number:** L2408101
Project Number: 045163 **Report Date:** 02/21/24

Case Narrative (continued)

MCP Related Narratives

Volatile Organics

L2408101-06: Initial calibration utilized a quadratic fit for: 1,1-dichloropropene

L2408101-06D: A copy of the continuing calibration standard is included as an addendum to this report.

In reference to question G:

L2408101-06, -07, and -12: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The WG1887347-5 Method Blank, associated with L2408101-06, has a concentration above the reporting limit for chloroform. Since the associated sample concentration is either greater than 10x the blank concentration or non-detect to the RL for this target analyte, no corrective action is required. Any result detected below the reporting limit is qualified with a "B".

L2408101-01, -02, -03, -04, -05, -07, -08, -09, -10, -11, -12, and -13: Initial Calibration did not meet:

Lowest Calibration Standard Minimum Response Factor: bromochloromethane (0.0979), bromodichloromethane (0.2758), 1,4-dioxane (0.0014), cis-1,3-dichloropropene (0.2950), 1,1,2-trichloroethane (0.1932)

Average Response Factor: 1,4-dioxane

Verification: carbon disulfide (69%)

L2408101-06: Initial Calibration did not meet:

Lowest Calibration Standard Minimum Response Factor: 1,4-dioxane (0.0018)

Average Response Factor: 1,4-dioxane

L2408101-01, -02, -03, -04, -05, -06, -07, -08, -09, -10, -11, -12, and -13: The associated continuing calibration standard is outside the acceptance criteria for several compounds; however, it is within overall method allowances. Associated results are considered to be biased high if the %D is negative and biased low if the %D is positive. A copy of the continuing calibration standard is included as an addendum to this report.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly O'Neill

Title: Technical Director/Representative Date: 02/21/24

QC OUTLIER SUMMARY REPORT

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
MCP Volatile Organics by EPA 5035 High - Westborough Lab								
8260D	Batch QC	WG1886042-3	Chloromethane	LCS	67	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-3	1,1-Dichloroethene	LCS	68	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-3	Dichlorodifluoromethane	LCS	62	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-3	Acetone	LCS	64	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-3	Carbon disulfide	LCS	68	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-3	Tetrahydrofuran	LCS	65	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-4	Chloromethane	LCSD	67	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-4	1,1-Dichloroethene	LCSD	68	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-4	Dichlorodifluoromethane	LCSD	62	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-4	Acetone	LCSD	64	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-4	Carbon disulfide	LCSD	68	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-4	Tetrahydrofuran	LCSD	64	70-130	07,12	potential low bias
8260D	Batch QC	WG1887347-3	Chloromethane	LCS	68	70-130	06	potential low bias
8260D	Batch QC	WG1887347-3	Dichlorodifluoromethane	LCS	49	70-130	06	potential low bias
8260D	Batch QC	WG1887347-3	Acetone	LCS	68	70-130	06	potential low bias
8260D	Batch QC	WG1887347-3	Methyl ethyl ketone	LCS	62	70-130	06	potential low bias
8260D	Batch QC	WG1887347-3	Methyl isobutyl ketone	LCS	69	70-130	06	potential low bias
8260D	Batch QC	WG1887347-3	2-Hexanone	LCS	64	70-130	06	potential low bias
8260D	Batch QC	WG1887347-3	Tetrahydrofuran	LCS	58	70-130	06	potential low bias
8260D	Batch QC	WG1887347-4	Chloromethane	LCSD	64	70-130	06	potential low bias
8260D	Batch QC	WG1887347-4	Dichlorodifluoromethane	LCSD	46	70-130	06	potential low bias
8260D	Batch QC	WG1887347-4	Acetone	LCSD	67	70-130	06	potential low bias
8260D	Batch QC	WG1887347-4	Methyl ethyl ketone	LCSD	65	70-130	06	potential low bias
8260D	Batch QC	WG1887347-4	2-Hexanone	LCSD	65	70-130	06	potential low bias
8260D	Batch QC	WG1887347-4	Tetrahydrofuran	LCSD	63	70-130	06	potential low bias
8260D	Batch QC	WG1887734-3	Chloromethane	LCS	66	70-130	06	potential low bias
8260D	Batch QC	WG1887734-3	Dichlorodifluoromethane	LCS	41	70-130	06	potential low bias
8260D	Batch QC	WG1887734-3	Methyl ethyl ketone	LCS	68	70-130	06	potential low bias
8260D	Batch QC	WG1887734-3	2-Hexanone	LCS	69	70-130	06	potential low bias

QC OUTLIER SUMMARY REPORT

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
8260D	Batch QC	WG1887734-3	Tetrahydrofuran	LCS	64	70-130	06	potential low bias
8260D	Batch QC	WG1887734-4	Chloromethane	LCSD	65	70-130	06	potential low bias
8260D	Batch QC	WG1887734-4	Dichlorodifluoromethane	LCSD	41	70-130	06	potential low bias
8260D	Batch QC	WG1887734-4	Acetone	LCSD	69	70-130	06	potential low bias
8260D	Batch QC	WG1887734-4	Tetrahydrofuran	LCSD	64	70-130	06	potential low bias
MCP Volatile Organics by EPA 5035 Low - Westborough Lab								
8260D	Batch QC	WG1886062-3	Chloromethane	LCS	67	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-3	1,1-Dichloroethene	LCS	68	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-3	Dichlorodifluoromethane	LCS	62	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-3	Acetone	LCS	64	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-3	Carbon disulfide	LCS	68	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-3	Tetrahydrofuran	LCS	65	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-4	Chloromethane	LCSD	67	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-4	1,1-Dichloroethene	LCSD	68	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-4	Dichlorodifluoromethane	LCSD	62	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-4	Acetone	LCSD	64	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-4	Carbon disulfide	LCSD	68	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-4	Tetrahydrofuran	LCSD	64	70-130	01-05,08-11,13	potential low bias

ORGANICS

VOLATILES

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-01
Client ID: 50TUFT-B101(0-1)
Sample Location: SOMERVILLE, MA

Date Collected: 02/12/24 08:30
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 15:23
Analyst: MAG
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.7	--	1
1,1-Dichloroethane	ND		ug/kg	0.74	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.74	--	1
1,2-Dichloropropane	ND		ug/kg	0.74	--	1
Dibromochloromethane	ND		ug/kg	0.74	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.74	--	1
Tetrachloroethene	2.3		ug/kg	0.37	--	1
Chlorobenzene	ND		ug/kg	0.37	--	1
Trichlorofluoromethane	ND		ug/kg	2.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.74	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.37	--	1
Bromodichloromethane	ND		ug/kg	0.37	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.74	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.37	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.37	--	1
1,1-Dichloropropene	ND		ug/kg	0.37	--	1
Bromoform	ND		ug/kg	2.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.37	--	1
Benzene	ND		ug/kg	0.37	--	1
Toluene	ND		ug/kg	0.74	--	1
Ethylbenzene	ND		ug/kg	0.74	--	1
Chloromethane	ND		ug/kg	2.9	--	1
Bromomethane	ND		ug/kg	1.5	--	1
Vinyl chloride	ND		ug/kg	0.74	--	1
Chloroethane	ND		ug/kg	1.5	--	1
1,1-Dichloroethene	ND		ug/kg	0.74	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-01
Client ID: 50TUFT-B101(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 08:30
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.37	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.5	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.5	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.5	--	1
Methyl tert butyl ether	ND		ug/kg	1.5	--	1
p/m-Xylene	ND		ug/kg	1.5	--	1
o-Xylene	ND		ug/kg	0.74	--	1
Xylenes, Total	ND		ug/kg	0.74	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.74	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.74	--	1
Dibromomethane	ND		ug/kg	1.5	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.5	--	1
Styrene	ND		ug/kg	0.74	--	1
Dichlorodifluoromethane	ND		ug/kg	7.4	--	1
Acetone	ND		ug/kg	18	--	1
Carbon disulfide	ND		ug/kg	7.4	--	1
Methyl ethyl ketone	ND		ug/kg	7.4	--	1
Methyl isobutyl ketone	ND		ug/kg	7.4	--	1
2-Hexanone	ND		ug/kg	7.4	--	1
Bromochloromethane	ND		ug/kg	1.5	--	1
Tetrahydrofuran	ND		ug/kg	2.9	--	1
2,2-Dichloropropane	ND		ug/kg	1.5	--	1
1,2-Dibromoethane	ND		ug/kg	0.74	--	1
1,3-Dichloropropane	ND		ug/kg	1.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.37	--	1
Bromobenzene	ND		ug/kg	1.5	--	1
n-Butylbenzene	ND		ug/kg	0.74	--	1
sec-Butylbenzene	ND		ug/kg	0.74	--	1
tert-Butylbenzene	ND		ug/kg	1.5	--	1
o-Chlorotoluene	ND		ug/kg	1.5	--	1
p-Chlorotoluene	ND		ug/kg	1.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.2	--	1
Hexachlorobutadiene	ND		ug/kg	2.9	--	1
Isopropylbenzene	ND		ug/kg	0.74	--	1
p-Isopropyltoluene	ND		ug/kg	0.74	--	1
Naphthalene	ND		ug/kg	2.9	--	1
n-Propylbenzene	ND		ug/kg	0.74	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-01
Client ID: 50TUFT-B101(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 08:30
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.5	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.5	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.5	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.5	--	1
Diethyl ether	ND		ug/kg	1.5	--	1
Diisopropyl Ether	ND		ug/kg	1.5	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.5	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.5	--	1
1,4-Dioxane	ND		ug/kg	59	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	95		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-02
Client ID: 50TUFT-B101(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 08:31
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 15:54
Analyst: MAG
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.3	--	1
1,1-Dichloroethane	ND		ug/kg	0.66	--	1
Chloroform	ND		ug/kg	0.99	--	1
Carbon tetrachloride	ND		ug/kg	0.66	--	1
1,2-Dichloropropane	ND		ug/kg	0.66	--	1
Dibromochloromethane	ND		ug/kg	0.66	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.66	--	1
Tetrachloroethene	ND		ug/kg	0.33	--	1
Chlorobenzene	ND		ug/kg	0.33	--	1
Trichlorofluoromethane	ND		ug/kg	2.6	--	1
1,2-Dichloroethane	ND		ug/kg	0.66	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.33	--	1
Bromodichloromethane	ND		ug/kg	0.33	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.66	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.33	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.33	--	1
1,1-Dichloropropene	ND		ug/kg	0.33	--	1
Bromoform	ND		ug/kg	2.6	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.33	--	1
Benzene	ND		ug/kg	0.33	--	1
Toluene	ND		ug/kg	0.66	--	1
Ethylbenzene	ND		ug/kg	0.66	--	1
Chloromethane	ND		ug/kg	2.6	--	1
Bromomethane	ND		ug/kg	1.3	--	1
Vinyl chloride	ND		ug/kg	0.66	--	1
Chloroethane	ND		ug/kg	1.3	--	1
1,1-Dichloroethene	ND		ug/kg	0.66	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.99	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-02
Client ID: 50TUFT-B101(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 08:31
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.33	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.3	--	1
Methyl tert butyl ether	ND		ug/kg	1.3	--	1
p/m-Xylene	ND		ug/kg	1.3	--	1
o-Xylene	ND		ug/kg	0.66	--	1
Xylenes, Total	ND		ug/kg	0.66	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.66	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.66	--	1
Dibromomethane	ND		ug/kg	1.3	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.3	--	1
Styrene	ND		ug/kg	0.66	--	1
Dichlorodifluoromethane	ND		ug/kg	6.6	--	1
Acetone	ND		ug/kg	16	--	1
Carbon disulfide	ND		ug/kg	6.6	--	1
Methyl ethyl ketone	ND		ug/kg	6.6	--	1
Methyl isobutyl ketone	ND		ug/kg	6.6	--	1
2-Hexanone	ND		ug/kg	6.6	--	1
Bromochloromethane	ND		ug/kg	1.3	--	1
Tetrahydrofuran	ND		ug/kg	2.6	--	1
2,2-Dichloropropane	ND		ug/kg	1.3	--	1
1,2-Dibromoethane	ND		ug/kg	0.66	--	1
1,3-Dichloropropane	ND		ug/kg	1.3	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.33	--	1
Bromobenzene	ND		ug/kg	1.3	--	1
n-Butylbenzene	ND		ug/kg	0.66	--	1
sec-Butylbenzene	ND		ug/kg	0.66	--	1
tert-Butylbenzene	ND		ug/kg	1.3	--	1
o-Chlorotoluene	ND		ug/kg	1.3	--	1
p-Chlorotoluene	ND		ug/kg	1.3	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.0	--	1
Hexachlorobutadiene	ND		ug/kg	2.6	--	1
Isopropylbenzene	ND		ug/kg	0.66	--	1
p-Isopropyltoluene	ND		ug/kg	0.66	--	1
Naphthalene	ND		ug/kg	2.6	--	1
n-Propylbenzene	ND		ug/kg	0.66	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-02
Client ID: 50TUFT-B101(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 08:31
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.3	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.3	--	1
Diethyl ether	ND		ug/kg	1.3	--	1
Diisopropyl Ether	ND		ug/kg	1.3	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.3	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.3	--	1
1,4-Dioxane	ND		ug/kg	53	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	94		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-03
Client ID: 50TUFT-B101(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 08:32
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 16:24
Analyst: MAG
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	2.6	--	1
1,1-Dichloroethane	ND		ug/kg	0.51	--	1
Chloroform	ND		ug/kg	0.77	--	1
Carbon tetrachloride	ND		ug/kg	0.51	--	1
1,2-Dichloropropane	ND		ug/kg	0.51	--	1
Dibromochloromethane	ND		ug/kg	0.51	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.51	--	1
Tetrachloroethene	15		ug/kg	0.26	--	1
Chlorobenzene	ND		ug/kg	0.26	--	1
Trichlorofluoromethane	ND		ug/kg	2.0	--	1
1,2-Dichloroethane	ND		ug/kg	0.51	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.26	--	1
Bromodichloromethane	ND		ug/kg	0.26	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.51	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.26	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.26	--	1
1,1-Dichloropropene	ND		ug/kg	0.26	--	1
Bromoform	ND		ug/kg	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.26	--	1
Benzene	ND		ug/kg	0.26	--	1
Toluene	ND		ug/kg	0.51	--	1
Ethylbenzene	ND		ug/kg	0.51	--	1
Chloromethane	ND		ug/kg	2.0	--	1
Bromomethane	ND		ug/kg	1.0	--	1
Vinyl chloride	ND		ug/kg	0.51	--	1
Chloroethane	ND		ug/kg	1.0	--	1
1,1-Dichloroethene	ND		ug/kg	0.51	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.77	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-03
Client ID: 50TUFT-B101(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 08:32
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.26	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.0	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.0	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.0	--	1
Methyl tert butyl ether	ND		ug/kg	1.0	--	1
p/m-Xylene	ND		ug/kg	1.0	--	1
o-Xylene	ND		ug/kg	0.51	--	1
Xylenes, Total	ND		ug/kg	0.51	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.51	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.51	--	1
Dibromomethane	ND		ug/kg	1.0	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.0	--	1
Styrene	ND		ug/kg	0.51	--	1
Dichlorodifluoromethane	ND		ug/kg	5.1	--	1
Acetone	ND		ug/kg	13	--	1
Carbon disulfide	ND		ug/kg	5.1	--	1
Methyl ethyl ketone	ND		ug/kg	5.1	--	1
Methyl isobutyl ketone	ND		ug/kg	5.1	--	1
2-Hexanone	ND		ug/kg	5.1	--	1
Bromochloromethane	ND		ug/kg	1.0	--	1
Tetrahydrofuran	ND		ug/kg	2.0	--	1
2,2-Dichloropropane	ND		ug/kg	1.0	--	1
1,2-Dibromoethane	ND		ug/kg	0.51	--	1
1,3-Dichloropropane	ND		ug/kg	1.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.26	--	1
Bromobenzene	ND		ug/kg	1.0	--	1
n-Butylbenzene	ND		ug/kg	0.51	--	1
sec-Butylbenzene	ND		ug/kg	0.51	--	1
tert-Butylbenzene	ND		ug/kg	1.0	--	1
o-Chlorotoluene	ND		ug/kg	1.0	--	1
p-Chlorotoluene	ND		ug/kg	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.5	--	1
Hexachlorobutadiene	ND		ug/kg	2.0	--	1
Isopropylbenzene	ND		ug/kg	0.51	--	1
p-Isopropyltoluene	ND		ug/kg	0.51	--	1
Naphthalene	ND		ug/kg	2.0	--	1
n-Propylbenzene	ND		ug/kg	0.51	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-03
Client ID: 50TUFT-B101(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 08:32
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.0	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.0	--	1
Diethyl ether	ND		ug/kg	1.0	--	1
Diisopropyl Ether	ND		ug/kg	1.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.0	--	1
1,4-Dioxane	ND		ug/kg	41	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	93		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-04
Client ID: 50TUFT-B102(0-1)
Sample Location: SOMERVILLE, MA

Date Collected: 02/12/24 09:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 16:54
Analyst: MAG
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.2	--	1
1,1-Dichloroethane	ND		ug/kg	0.64	--	1
Chloroform	ND		ug/kg	0.95	--	1
Carbon tetrachloride	ND		ug/kg	0.64	--	1
1,2-Dichloropropane	ND		ug/kg	0.64	--	1
Dibromochloromethane	ND		ug/kg	0.64	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.64	--	1
Tetrachloroethene	0.48		ug/kg	0.32	--	1
Chlorobenzene	ND		ug/kg	0.32	--	1
Trichlorofluoromethane	ND		ug/kg	2.5	--	1
1,2-Dichloroethane	ND		ug/kg	0.64	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.32	--	1
Bromodichloromethane	ND		ug/kg	0.32	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.64	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.32	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.32	--	1
1,1-Dichloropropene	ND		ug/kg	0.32	--	1
Bromoform	ND		ug/kg	2.5	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.32	--	1
Benzene	ND		ug/kg	0.32	--	1
Toluene	ND		ug/kg	0.64	--	1
Ethylbenzene	ND		ug/kg	0.64	--	1
Chloromethane	ND		ug/kg	2.5	--	1
Bromomethane	ND		ug/kg	1.3	--	1
Vinyl chloride	ND		ug/kg	0.64	--	1
Chloroethane	ND		ug/kg	1.3	--	1
1,1-Dichloroethene	ND		ug/kg	0.64	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.95	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-04
Client ID: 50TUFT-B102(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.32	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.3	--	1
Methyl tert butyl ether	ND		ug/kg	1.3	--	1
p/m-Xylene	ND		ug/kg	1.3	--	1
o-Xylene	ND		ug/kg	0.64	--	1
Xylenes, Total	ND		ug/kg	0.64	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.64	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.64	--	1
Dibromomethane	ND		ug/kg	1.3	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.3	--	1
Styrene	ND		ug/kg	0.64	--	1
Dichlorodifluoromethane	ND		ug/kg	6.4	--	1
Acetone	ND		ug/kg	16	--	1
Carbon disulfide	ND		ug/kg	6.4	--	1
Methyl ethyl ketone	ND		ug/kg	6.4	--	1
Methyl isobutyl ketone	ND		ug/kg	6.4	--	1
2-Hexanone	ND		ug/kg	6.4	--	1
Bromochloromethane	ND		ug/kg	1.3	--	1
Tetrahydrofuran	ND		ug/kg	2.5	--	1
2,2-Dichloropropane	ND		ug/kg	1.3	--	1
1,2-Dibromoethane	ND		ug/kg	0.64	--	1
1,3-Dichloropropane	ND		ug/kg	1.3	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.32	--	1
Bromobenzene	ND		ug/kg	1.3	--	1
n-Butylbenzene	ND		ug/kg	0.64	--	1
sec-Butylbenzene	ND		ug/kg	0.64	--	1
tert-Butylbenzene	ND		ug/kg	1.3	--	1
o-Chlorotoluene	ND		ug/kg	1.3	--	1
p-Chlorotoluene	ND		ug/kg	1.3	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.9	--	1
Hexachlorobutadiene	ND		ug/kg	2.5	--	1
Isopropylbenzene	ND		ug/kg	0.64	--	1
p-Isopropyltoluene	ND		ug/kg	0.64	--	1
Naphthalene	ND		ug/kg	2.5	--	1
n-Propylbenzene	ND		ug/kg	0.64	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-04
Client ID: 50TUFT-B102(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.3	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.3	--	1
Diethyl ether	ND		ug/kg	1.3	--	1
Diisopropyl Ether	ND		ug/kg	1.3	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.3	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.3	--	1
1,4-Dioxane	ND		ug/kg	51	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	93		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-05
Client ID: 50TUFT-B102(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 17:25
Analyst: MAG
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	2.9	--	1
1,1-Dichloroethane	ND		ug/kg	0.58	--	1
Chloroform	ND		ug/kg	0.88	--	1
Carbon tetrachloride	ND		ug/kg	0.58	--	1
1,2-Dichloropropane	ND		ug/kg	0.58	--	1
Dibromochloromethane	ND		ug/kg	0.58	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.58	--	1
Tetrachloroethene	1.0		ug/kg	0.29	--	1
Chlorobenzene	ND		ug/kg	0.29	--	1
Trichlorofluoromethane	ND		ug/kg	2.3	--	1
1,2-Dichloroethane	ND		ug/kg	0.58	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.29	--	1
Bromodichloromethane	ND		ug/kg	0.29	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.58	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.29	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.29	--	1
1,1-Dichloropropene	ND		ug/kg	0.29	--	1
Bromoform	ND		ug/kg	2.3	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.29	--	1
Benzene	ND		ug/kg	0.29	--	1
Toluene	ND		ug/kg	0.58	--	1
Ethylbenzene	ND		ug/kg	0.58	--	1
Chloromethane	ND		ug/kg	2.3	--	1
Bromomethane	ND		ug/kg	1.2	--	1
Vinyl chloride	ND		ug/kg	0.58	--	1
Chloroethane	ND		ug/kg	1.2	--	1
1,1-Dichloroethene	ND		ug/kg	0.58	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.88	--	1

Project Name: TUFTS STREET **Lab Number:** L2408101

Project Number: 045163 **Report Date:** 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-05 Date Collected: 02/12/24 09:01

Client ID: 50TUFT-B102(1-3) Date Received: 02/14/24

Sample Location: SOMERVILLE, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.37		ug/kg	0.29	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.2	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.2	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.2	--	1
Methyl tert butyl ether	ND		ug/kg	1.2	--	1
p/m-Xylene	ND		ug/kg	1.2	--	1
o-Xylene	ND		ug/kg	0.58	--	1
Xylenes, Total	ND		ug/kg	0.58	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.58	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.58	--	1
Dibromomethane	ND		ug/kg	1.2	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.2	--	1
Styrene	ND		ug/kg	0.58	--	1
Dichlorodifluoromethane	ND		ug/kg	5.8	--	1
Acetone	ND		ug/kg	14	--	1
Carbon disulfide	ND		ug/kg	5.8	--	1
Methyl ethyl ketone	ND		ug/kg	5.8	--	1
Methyl isobutyl ketone	ND		ug/kg	5.8	--	1
2-Hexanone	ND		ug/kg	5.8	--	1
Bromochloromethane	ND		ug/kg	1.2	--	1
Tetrahydrofuran	ND		ug/kg	2.3	--	1
2,2-Dichloropropane	ND		ug/kg	1.2	--	1
1,2-Dibromoethane	ND		ug/kg	0.58	--	1
1,3-Dichloropropane	ND		ug/kg	1.2	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.29	--	1
Bromobenzene	ND		ug/kg	1.2	--	1
n-Butylbenzene	ND		ug/kg	0.58	--	1
sec-Butylbenzene	ND		ug/kg	0.58	--	1
tert-Butylbenzene	ND		ug/kg	1.2	--	1
o-Chlorotoluene	ND		ug/kg	1.2	--	1
p-Chlorotoluene	ND		ug/kg	1.2	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.8	--	1
Hexachlorobutadiene	ND		ug/kg	2.3	--	1
Isopropylbenzene	ND		ug/kg	0.58	--	1
p-Isopropyltoluene	ND		ug/kg	0.58	--	1
Naphthalene	ND		ug/kg	2.3	--	1
n-Propylbenzene	ND		ug/kg	0.58	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-05
Client ID: 50TUFT-B102(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.2	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.2	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.2	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.2	--	1
Diethyl ether	ND		ug/kg	1.2	--	1
Diisopropyl Ether	ND		ug/kg	1.2	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.2	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.2	--	1
1,4-Dioxane	ND		ug/kg	47	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	93		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-06
Client ID: 50TUFT-B103(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:30
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/20/24 14:19
Analyst: MAG
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	230	--	1
1,1-Dichloroethane	ND		ug/kg	46	--	1
Chloroform	ND		ug/kg	68	--	1
Carbon tetrachloride	ND		ug/kg	46	--	1
1,2-Dichloropropane	ND		ug/kg	46	--	1
Dibromochloromethane	ND		ug/kg	46	--	1
1,1,2-Trichloroethane	ND		ug/kg	46	--	1
Tetrachloroethene	92000	E	ug/kg	23	--	1
Chlorobenzene	ND		ug/kg	23	--	1
Trichlorofluoromethane	ND		ug/kg	180	--	1
1,2-Dichloroethane	ND		ug/kg	46	--	1
1,1,1-Trichloroethane	ND		ug/kg	23	--	1
Bromodichloromethane	ND		ug/kg	23	--	1
trans-1,3-Dichloropropene	ND		ug/kg	46	--	1
cis-1,3-Dichloropropene	ND		ug/kg	23	--	1
1,3-Dichloropropene, Total	ND		ug/kg	23	--	1
1,1-Dichloropropene	ND		ug/kg	23	--	1
Bromoform	ND		ug/kg	180	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	23	--	1
Benzene	ND		ug/kg	23	--	1
Toluene	ND		ug/kg	46	--	1
Ethylbenzene	ND		ug/kg	46	--	1
Chloromethane	ND		ug/kg	180	--	1
Bromomethane	ND		ug/kg	91	--	1
Vinyl chloride	ND		ug/kg	46	--	1
Chloroethane	ND		ug/kg	91	--	1
1,1-Dichloroethene	ND		ug/kg	46	--	1
trans-1,2-Dichloroethene	ND		ug/kg	68	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-06
Client ID: 50TUFT-B103(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:30
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	240		ug/kg	23	--	1
1,2-Dichlorobenzene	ND		ug/kg	91	--	1
1,3-Dichlorobenzene	ND		ug/kg	91	--	1
1,4-Dichlorobenzene	ND		ug/kg	91	--	1
Methyl tert butyl ether	ND		ug/kg	91	--	1
p/m-Xylene	ND		ug/kg	91	--	1
o-Xylene	ND		ug/kg	46	--	1
Xylenes, Total	ND		ug/kg	46	--	1
cis-1,2-Dichloroethene	94		ug/kg	46	--	1
1,2-Dichloroethene, Total	94		ug/kg	46	--	1
Dibromomethane	ND		ug/kg	91	--	1
1,2,3-Trichloropropane	ND		ug/kg	91	--	1
Styrene	ND		ug/kg	46	--	1
Dichlorodifluoromethane	ND		ug/kg	460	--	1
Acetone	ND		ug/kg	460	--	1
Carbon disulfide	ND		ug/kg	460	--	1
Methyl ethyl ketone	ND		ug/kg	460	--	1
Methyl isobutyl ketone	ND		ug/kg	460	--	1
2-Hexanone	ND		ug/kg	460	--	1
Bromochloromethane	ND		ug/kg	91	--	1
Tetrahydrofuran	ND		ug/kg	180	--	1
2,2-Dichloropropane	ND		ug/kg	91	--	1
1,2-Dibromoethane	ND		ug/kg	46	--	1
1,3-Dichloropropane	ND		ug/kg	91	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	23	--	1
Bromobenzene	ND		ug/kg	91	--	1
n-Butylbenzene	ND		ug/kg	46	--	1
sec-Butylbenzene	ND		ug/kg	46	--	1
tert-Butylbenzene	ND		ug/kg	91	--	1
o-Chlorotoluene	ND		ug/kg	91	--	1
p-Chlorotoluene	ND		ug/kg	91	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	140	--	1
Hexachlorobutadiene	ND		ug/kg	180	--	1
Isopropylbenzene	ND		ug/kg	46	--	1
p-Isopropyltoluene	ND		ug/kg	46	--	1
Naphthalene	ND		ug/kg	180	--	1
n-Propylbenzene	ND		ug/kg	46	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-06
Client ID: 50TUFT-B103(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:30
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	91	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	91	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	91	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	91	--	1
Diethyl ether	ND		ug/kg	91	--	1
Diisopropyl Ether	ND		ug/kg	91	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	91	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	91	--	1
1,4-Dioxane	ND		ug/kg	3600	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	91		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-06 D
Client ID: 50TUFT-B103(0-1)
Sample Location: SOMERVILLE, MA

Date Collected: 02/12/24 09:30
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/21/24 12:25
Analyst: AJK
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Tetrachloroethene	100000		ug/kg	230	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	95		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-07
Client ID: 50TUFT-B103(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:31
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 20:26
Analyst: MAG
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	310	--	1
1,1-Dichloroethane	ND		ug/kg	61	--	1
Chloroform	ND		ug/kg	92	--	1
Carbon tetrachloride	ND		ug/kg	61	--	1
1,2-Dichloropropane	ND		ug/kg	61	--	1
Dibromochloromethane	ND		ug/kg	61	--	1
1,1,2-Trichloroethane	ND		ug/kg	61	--	1
Tetrachloroethene	2800		ug/kg	31	--	1
Chlorobenzene	ND		ug/kg	31	--	1
Trichlorofluoromethane	ND		ug/kg	240	--	1
1,2-Dichloroethane	ND		ug/kg	61	--	1
1,1,1-Trichloroethane	ND		ug/kg	31	--	1
Bromodichloromethane	ND		ug/kg	31	--	1
trans-1,3-Dichloropropene	ND		ug/kg	61	--	1
cis-1,3-Dichloropropene	ND		ug/kg	31	--	1
1,3-Dichloropropene, Total	ND		ug/kg	31	--	1
1,1-Dichloropropene	ND		ug/kg	31	--	1
Bromoform	ND		ug/kg	240	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	31	--	1
Benzene	ND		ug/kg	31	--	1
Toluene	ND		ug/kg	61	--	1
Ethylbenzene	ND		ug/kg	61	--	1
Chloromethane	ND		ug/kg	240	--	1
Bromomethane	ND		ug/kg	120	--	1
Vinyl chloride	ND		ug/kg	61	--	1
Chloroethane	ND		ug/kg	120	--	1
1,1-Dichloroethene	ND		ug/kg	61	--	1
trans-1,2-Dichloroethene	ND		ug/kg	92	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-07
Client ID: 50TUFT-B103(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:31
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	31	--	1
1,2-Dichlorobenzene	ND		ug/kg	120	--	1
1,3-Dichlorobenzene	ND		ug/kg	120	--	1
1,4-Dichlorobenzene	ND		ug/kg	120	--	1
Methyl tert butyl ether	ND		ug/kg	120	--	1
p/m-Xylene	ND		ug/kg	120	--	1
o-Xylene	ND		ug/kg	61	--	1
Xylenes, Total	ND		ug/kg	61	--	1
cis-1,2-Dichloroethene	ND		ug/kg	61	--	1
1,2-Dichloroethene, Total	ND		ug/kg	61	--	1
Dibromomethane	ND		ug/kg	120	--	1
1,2,3-Trichloropropane	ND		ug/kg	120	--	1
Styrene	ND		ug/kg	61	--	1
Dichlorodifluoromethane	ND		ug/kg	610	--	1
Acetone	ND		ug/kg	610	--	1
Carbon disulfide	ND		ug/kg	610	--	1
Methyl ethyl ketone	ND		ug/kg	610	--	1
Methyl isobutyl ketone	ND		ug/kg	610	--	1
2-Hexanone	ND		ug/kg	610	--	1
Bromochloromethane	ND		ug/kg	120	--	1
Tetrahydrofuran	ND		ug/kg	240	--	1
2,2-Dichloropropane	ND		ug/kg	120	--	1
1,2-Dibromoethane	ND		ug/kg	61	--	1
1,3-Dichloropropane	ND		ug/kg	120	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	31	--	1
Bromobenzene	ND		ug/kg	120	--	1
n-Butylbenzene	ND		ug/kg	61	--	1
sec-Butylbenzene	ND		ug/kg	61	--	1
tert-Butylbenzene	ND		ug/kg	120	--	1
o-Chlorotoluene	ND		ug/kg	120	--	1
p-Chlorotoluene	ND		ug/kg	120	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	180	--	1
Hexachlorobutadiene	ND		ug/kg	240	--	1
Isopropylbenzene	ND		ug/kg	61	--	1
p-Isopropyltoluene	ND		ug/kg	61	--	1
Naphthalene	ND		ug/kg	240	--	1
n-Propylbenzene	ND		ug/kg	61	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-07
Client ID: 50TUFT-B103(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:31
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	120	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	120	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	120	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	120	--	1
Diethyl ether	ND		ug/kg	120	--	1
Diisopropyl Ether	ND		ug/kg	120	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	120	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	120	--	1
1,4-Dioxane	ND		ug/kg	4900	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	94		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-08
Client ID: 50TUFT-B103(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:32
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 17:55
Analyst: MAG
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.2	--	1
1,1-Dichloroethane	ND		ug/kg	0.63	--	1
Chloroform	ND		ug/kg	0.95	--	1
Carbon tetrachloride	ND		ug/kg	0.63	--	1
1,2-Dichloropropane	ND		ug/kg	0.63	--	1
Dibromochloromethane	ND		ug/kg	0.63	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.63	--	1
Tetrachloroethene	0.52		ug/kg	0.32	--	1
Chlorobenzene	ND		ug/kg	0.32	--	1
Trichlorofluoromethane	ND		ug/kg	2.5	--	1
1,2-Dichloroethane	ND		ug/kg	0.63	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.32	--	1
Bromodichloromethane	ND		ug/kg	0.32	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.63	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.32	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.32	--	1
1,1-Dichloropropene	ND		ug/kg	0.32	--	1
Bromoform	ND		ug/kg	2.5	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.32	--	1
Benzene	ND		ug/kg	0.32	--	1
Toluene	ND		ug/kg	0.63	--	1
Ethylbenzene	ND		ug/kg	0.63	--	1
Chloromethane	ND		ug/kg	2.5	--	1
Bromomethane	ND		ug/kg	1.3	--	1
Vinyl chloride	ND		ug/kg	0.63	--	1
Chloroethane	ND		ug/kg	1.3	--	1
1,1-Dichloroethene	ND		ug/kg	0.63	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.95	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-08
Client ID: 50TUFT-B103(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:32
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.32	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.3	--	1
Methyl tert butyl ether	ND		ug/kg	1.3	--	1
p/m-Xylene	ND		ug/kg	1.3	--	1
o-Xylene	ND		ug/kg	0.63	--	1
Xylenes, Total	ND		ug/kg	0.63	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.63	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.63	--	1
Dibromomethane	ND		ug/kg	1.3	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.3	--	1
Styrene	ND		ug/kg	0.63	--	1
Dichlorodifluoromethane	ND		ug/kg	6.3	--	1
Acetone	ND		ug/kg	16	--	1
Carbon disulfide	ND		ug/kg	6.3	--	1
Methyl ethyl ketone	ND		ug/kg	6.3	--	1
Methyl isobutyl ketone	ND		ug/kg	6.3	--	1
2-Hexanone	ND		ug/kg	6.3	--	1
Bromochloromethane	ND		ug/kg	1.3	--	1
Tetrahydrofuran	ND		ug/kg	2.5	--	1
2,2-Dichloropropane	ND		ug/kg	1.3	--	1
1,2-Dibromoethane	ND		ug/kg	0.63	--	1
1,3-Dichloropropane	ND		ug/kg	1.3	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.32	--	1
Bromobenzene	ND		ug/kg	1.3	--	1
n-Butylbenzene	ND		ug/kg	0.63	--	1
sec-Butylbenzene	ND		ug/kg	0.63	--	1
tert-Butylbenzene	ND		ug/kg	1.3	--	1
o-Chlorotoluene	ND		ug/kg	1.3	--	1
p-Chlorotoluene	ND		ug/kg	1.3	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.9	--	1
Hexachlorobutadiene	ND		ug/kg	2.5	--	1
Isopropylbenzene	ND		ug/kg	0.63	--	1
p-Isopropyltoluene	ND		ug/kg	0.63	--	1
Naphthalene	ND		ug/kg	2.5	--	1
n-Propylbenzene	ND		ug/kg	0.63	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-08
Client ID: 50TUFT-B103(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:32
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.3	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.3	--	1
Diethyl ether	ND		ug/kg	1.3	--	1
Diisopropyl Ether	ND		ug/kg	1.3	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.3	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.3	--	1
1,4-Dioxane	ND		ug/kg	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	95		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-09
Client ID: 50TUFT-B104(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 10:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 18:25
Analyst: MAG
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	2.9	--	1
1,1-Dichloroethane	ND		ug/kg	0.57	--	1
Chloroform	ND		ug/kg	0.86	--	1
Carbon tetrachloride	ND		ug/kg	0.57	--	1
1,2-Dichloropropane	ND		ug/kg	0.57	--	1
Dibromochloromethane	ND		ug/kg	0.57	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.57	--	1
Tetrachloroethene	23		ug/kg	0.29	--	1
Chlorobenzene	ND		ug/kg	0.29	--	1
Trichlorofluoromethane	ND		ug/kg	2.3	--	1
1,2-Dichloroethane	ND		ug/kg	0.57	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.29	--	1
Bromodichloromethane	ND		ug/kg	0.29	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.57	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.29	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.29	--	1
1,1-Dichloropropene	ND		ug/kg	0.29	--	1
Bromoform	ND		ug/kg	2.3	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.29	--	1
Benzene	ND		ug/kg	0.29	--	1
Toluene	ND		ug/kg	0.57	--	1
Ethylbenzene	ND		ug/kg	0.57	--	1
Chloromethane	ND		ug/kg	2.3	--	1
Bromomethane	ND		ug/kg	1.1	--	1
Vinyl chloride	ND		ug/kg	0.57	--	1
Chloroethane	ND		ug/kg	1.1	--	1
1,1-Dichloroethene	ND		ug/kg	0.57	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.86	--	1

Project Name: TUFTS STREET **Lab Number:** L2408101

Project Number: 045163 **Report Date:** 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-09 Date Collected: 02/12/24 10:00

Client ID: 50TUFT-B104(0-1) Date Received: 02/14/24

Sample Location: SOMERVILLE, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.29	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.1	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.1	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.1	--	1
Methyl tert butyl ether	ND		ug/kg	1.1	--	1
p/m-Xylene	ND		ug/kg	1.1	--	1
o-Xylene	ND		ug/kg	0.57	--	1
Xylenes, Total	ND		ug/kg	0.57	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.57	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.57	--	1
Dibromomethane	ND		ug/kg	1.1	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.1	--	1
Styrene	ND		ug/kg	0.57	--	1
Dichlorodifluoromethane	ND		ug/kg	5.7	--	1
Acetone	ND		ug/kg	14	--	1
Carbon disulfide	ND		ug/kg	5.7	--	1
Methyl ethyl ketone	ND		ug/kg	5.7	--	1
Methyl isobutyl ketone	ND		ug/kg	5.7	--	1
2-Hexanone	ND		ug/kg	5.7	--	1
Bromochloromethane	ND		ug/kg	1.1	--	1
Tetrahydrofuran	ND		ug/kg	2.3	--	1
2,2-Dichloropropane	ND		ug/kg	1.1	--	1
1,2-Dibromoethane	ND		ug/kg	0.57	--	1
1,3-Dichloropropane	ND		ug/kg	1.1	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.29	--	1
Bromobenzene	ND		ug/kg	1.1	--	1
n-Butylbenzene	ND		ug/kg	0.57	--	1
sec-Butylbenzene	ND		ug/kg	0.57	--	1
tert-Butylbenzene	ND		ug/kg	1.1	--	1
o-Chlorotoluene	ND		ug/kg	1.1	--	1
p-Chlorotoluene	ND		ug/kg	1.1	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.7	--	1
Hexachlorobutadiene	ND		ug/kg	2.3	--	1
Isopropylbenzene	ND		ug/kg	0.57	--	1
p-Isopropyltoluene	ND		ug/kg	0.57	--	1
Naphthalene	ND		ug/kg	2.3	--	1
n-Propylbenzene	ND		ug/kg	0.57	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-09
Client ID: 50TUFT-B104(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 10:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.1	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.1	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.1	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.1	--	1
Diethyl ether	ND		ug/kg	1.1	--	1
Diisopropyl Ether	ND		ug/kg	1.1	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.1	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.1	--	1
1,4-Dioxane	ND		ug/kg	46	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-10
Client ID: 50TUFT-B104(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 10:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 18:56
Analyst: MAG
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.3	--	1
1,1-Dichloroethane	ND		ug/kg	0.67	--	1
Chloroform	ND		ug/kg	1.0	--	1
Carbon tetrachloride	ND		ug/kg	0.67	--	1
1,2-Dichloropropane	ND		ug/kg	0.67	--	1
Dibromochloromethane	ND		ug/kg	0.67	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.67	--	1
Tetrachloroethene	15		ug/kg	0.33	--	1
Chlorobenzene	ND		ug/kg	0.33	--	1
Trichlorofluoromethane	ND		ug/kg	2.7	--	1
1,2-Dichloroethane	ND		ug/kg	0.67	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.33	--	1
Bromodichloromethane	ND		ug/kg	0.33	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.67	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.33	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.33	--	1
1,1-Dichloropropene	ND		ug/kg	0.33	--	1
Bromoform	ND		ug/kg	2.7	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.33	--	1
Benzene	ND		ug/kg	0.33	--	1
Toluene	ND		ug/kg	0.67	--	1
Ethylbenzene	ND		ug/kg	0.67	--	1
Chloromethane	ND		ug/kg	2.7	--	1
Bromomethane	ND		ug/kg	1.3	--	1
Vinyl chloride	ND		ug/kg	0.67	--	1
Chloroethane	ND		ug/kg	1.3	--	1
1,1-Dichloroethene	ND		ug/kg	0.67	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.0	--	1

Project Name: TUFTS STREET **Lab Number:** L2408101

Project Number: 045163 **Report Date:** 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-10 Date Collected: 02/12/24 10:01

Client ID: 50TUFT-B104(1-3) Date Received: 02/14/24

Sample Location: SOMERVILLE, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.33	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.3	--	1
Methyl tert butyl ether	ND		ug/kg	1.3	--	1
p/m-Xylene	ND		ug/kg	1.3	--	1
o-Xylene	ND		ug/kg	0.67	--	1
Xylenes, Total	ND		ug/kg	0.67	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.67	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.67	--	1
Dibromomethane	ND		ug/kg	1.3	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.3	--	1
Styrene	ND		ug/kg	0.67	--	1
Dichlorodifluoromethane	ND		ug/kg	6.7	--	1
Acetone	ND		ug/kg	17	--	1
Carbon disulfide	ND		ug/kg	6.7	--	1
Methyl ethyl ketone	ND		ug/kg	6.7	--	1
Methyl isobutyl ketone	ND		ug/kg	6.7	--	1
2-Hexanone	ND		ug/kg	6.7	--	1
Bromochloromethane	ND		ug/kg	1.3	--	1
Tetrahydrofuran	ND		ug/kg	2.7	--	1
2,2-Dichloropropane	ND		ug/kg	1.3	--	1
1,2-Dibromoethane	ND		ug/kg	0.67	--	1
1,3-Dichloropropane	ND		ug/kg	1.3	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.33	--	1
Bromobenzene	ND		ug/kg	1.3	--	1
n-Butylbenzene	ND		ug/kg	0.67	--	1
sec-Butylbenzene	ND		ug/kg	0.67	--	1
tert-Butylbenzene	ND		ug/kg	1.3	--	1
o-Chlorotoluene	ND		ug/kg	1.3	--	1
p-Chlorotoluene	ND		ug/kg	1.3	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.0	--	1
Hexachlorobutadiene	ND		ug/kg	2.7	--	1
Isopropylbenzene	ND		ug/kg	0.67	--	1
p-Isopropyltoluene	ND		ug/kg	0.67	--	1
Naphthalene	ND		ug/kg	2.7	--	1
n-Propylbenzene	ND		ug/kg	0.67	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-10
Client ID: 50TUFT-B104(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 10:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.3	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.3	--	1
Diethyl ether	ND		ug/kg	1.3	--	1
Diisopropyl Ether	ND		ug/kg	1.3	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.3	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.3	--	1
1,4-Dioxane	ND		ug/kg	53	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	97		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-11
Client ID: 50TUFT-B104(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 10:02
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 19:26
Analyst: MAG
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.4	--	1
1,1-Dichloroethane	ND		ug/kg	0.88	--	1
Chloroform	ND		ug/kg	1.3	--	1
Carbon tetrachloride	ND		ug/kg	0.88	--	1
1,2-Dichloropropane	ND		ug/kg	0.88	--	1
Dibromochloromethane	ND		ug/kg	0.88	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.88	--	1
Tetrachloroethene	2.4		ug/kg	0.44	--	1
Chlorobenzene	ND		ug/kg	0.44	--	1
Trichlorofluoromethane	ND		ug/kg	3.5	--	1
1,2-Dichloroethane	ND		ug/kg	0.88	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.44	--	1
Bromodichloromethane	ND		ug/kg	0.44	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.88	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.44	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.44	--	1
1,1-Dichloropropene	ND		ug/kg	0.44	--	1
Bromoform	ND		ug/kg	3.5	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.44	--	1
Benzene	ND		ug/kg	0.44	--	1
Toluene	ND		ug/kg	0.88	--	1
Ethylbenzene	ND		ug/kg	0.88	--	1
Chloromethane	ND		ug/kg	3.5	--	1
Bromomethane	ND		ug/kg	1.8	--	1
Vinyl chloride	ND		ug/kg	0.88	--	1
Chloroethane	ND		ug/kg	1.8	--	1
1,1-Dichloroethene	ND		ug/kg	0.88	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-11
Client ID: 50TUFT-B104(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 10:02
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.44	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	--	1
Methyl tert butyl ether	ND		ug/kg	1.8	--	1
p/m-Xylene	ND		ug/kg	1.8	--	1
o-Xylene	ND		ug/kg	0.88	--	1
Xylenes, Total	ND		ug/kg	0.88	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.88	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.88	--	1
Dibromomethane	ND		ug/kg	1.8	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	--	1
Styrene	ND		ug/kg	0.88	--	1
Dichlorodifluoromethane	ND		ug/kg	8.8	--	1
Acetone	ND		ug/kg	22	--	1
Carbon disulfide	ND		ug/kg	8.8	--	1
Methyl ethyl ketone	ND		ug/kg	8.8	--	1
Methyl isobutyl ketone	ND		ug/kg	8.8	--	1
2-Hexanone	ND		ug/kg	8.8	--	1
Bromochloromethane	ND		ug/kg	1.8	--	1
Tetrahydrofuran	ND		ug/kg	3.5	--	1
2,2-Dichloropropane	ND		ug/kg	1.8	--	1
1,2-Dibromoethane	ND		ug/kg	0.88	--	1
1,3-Dichloropropane	ND		ug/kg	1.8	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.44	--	1
Bromobenzene	ND		ug/kg	1.8	--	1
n-Butylbenzene	ND		ug/kg	0.88	--	1
sec-Butylbenzene	ND		ug/kg	0.88	--	1
tert-Butylbenzene	ND		ug/kg	1.8	--	1
o-Chlorotoluene	ND		ug/kg	1.8	--	1
p-Chlorotoluene	ND		ug/kg	1.8	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	--	1
Hexachlorobutadiene	ND		ug/kg	3.5	--	1
Isopropylbenzene	ND		ug/kg	0.88	--	1
p-Isopropyltoluene	ND		ug/kg	0.88	--	1
Naphthalene	ND		ug/kg	3.5	--	1
n-Propylbenzene	ND		ug/kg	0.88	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-11
Client ID: 50TUFT-B104(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 10:02
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	--	1
Diethyl ether	ND		ug/kg	1.8	--	1
Diisopropyl Ether	ND		ug/kg	1.8	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.8	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.8	--	1
1,4-Dioxane	ND		ug/kg	70	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	95		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-12
Client ID: 50TUFT-B105(0-1)
Sample Location: SOMERVILLE, MA

Date Collected: 02/12/24 11:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 20:57
Analyst: MAG
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	220	--	1
1,1-Dichloroethane	ND		ug/kg	44	--	1
Chloroform	ND		ug/kg	67	--	1
Carbon tetrachloride	ND		ug/kg	44	--	1
1,2-Dichloropropane	ND		ug/kg	44	--	1
Dibromochloromethane	ND		ug/kg	44	--	1
1,1,2-Trichloroethane	ND		ug/kg	44	--	1
Tetrachloroethene	810		ug/kg	22	--	1
Chlorobenzene	ND		ug/kg	22	--	1
Trichlorofluoromethane	ND		ug/kg	180	--	1
1,2-Dichloroethane	ND		ug/kg	44	--	1
1,1,1-Trichloroethane	ND		ug/kg	22	--	1
Bromodichloromethane	ND		ug/kg	22	--	1
trans-1,3-Dichloropropene	ND		ug/kg	44	--	1
cis-1,3-Dichloropropene	ND		ug/kg	22	--	1
1,3-Dichloropropene, Total	ND		ug/kg	22	--	1
1,1-Dichloropropene	ND		ug/kg	22	--	1
Bromoform	ND		ug/kg	180	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	22	--	1
Benzene	ND		ug/kg	22	--	1
Toluene	53		ug/kg	44	--	1
Ethylbenzene	ND		ug/kg	44	--	1
Chloromethane	ND		ug/kg	180	--	1
Bromomethane	ND		ug/kg	89	--	1
Vinyl chloride	ND		ug/kg	44	--	1
Chloroethane	ND		ug/kg	89	--	1
1,1-Dichloroethene	ND		ug/kg	44	--	1
trans-1,2-Dichloroethene	ND		ug/kg	67	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-12
Client ID: 50TUFT-B105(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 11:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	22	--	1
1,2-Dichlorobenzene	ND		ug/kg	89	--	1
1,3-Dichlorobenzene	ND		ug/kg	89	--	1
1,4-Dichlorobenzene	ND		ug/kg	89	--	1
Methyl tert butyl ether	ND		ug/kg	89	--	1
p/m-Xylene	ND		ug/kg	89	--	1
o-Xylene	ND		ug/kg	44	--	1
Xylenes, Total	ND		ug/kg	44	--	1
cis-1,2-Dichloroethene	ND		ug/kg	44	--	1
1,2-Dichloroethene, Total	ND		ug/kg	44	--	1
Dibromomethane	ND		ug/kg	89	--	1
1,2,3-Trichloropropane	ND		ug/kg	89	--	1
Styrene	ND		ug/kg	44	--	1
Dichlorodifluoromethane	ND		ug/kg	440	--	1
Acetone	ND		ug/kg	440	--	1
Carbon disulfide	ND		ug/kg	440	--	1
Methyl ethyl ketone	ND		ug/kg	440	--	1
Methyl isobutyl ketone	ND		ug/kg	440	--	1
2-Hexanone	ND		ug/kg	440	--	1
Bromochloromethane	ND		ug/kg	89	--	1
Tetrahydrofuran	ND		ug/kg	180	--	1
2,2-Dichloropropane	ND		ug/kg	89	--	1
1,2-Dibromoethane	ND		ug/kg	44	--	1
1,3-Dichloropropane	ND		ug/kg	89	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	22	--	1
Bromobenzene	ND		ug/kg	89	--	1
n-Butylbenzene	ND		ug/kg	44	--	1
sec-Butylbenzene	ND		ug/kg	44	--	1
tert-Butylbenzene	ND		ug/kg	89	--	1
o-Chlorotoluene	ND		ug/kg	89	--	1
p-Chlorotoluene	ND		ug/kg	89	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	130	--	1
Hexachlorobutadiene	ND		ug/kg	180	--	1
Isopropylbenzene	ND		ug/kg	44	--	1
p-Isopropyltoluene	ND		ug/kg	44	--	1
Naphthalene	ND		ug/kg	180	--	1
n-Propylbenzene	ND		ug/kg	44	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-12
Client ID: 50TUFT-B105(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 11:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	89	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	89	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	89	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	89	--	1
Diethyl ether	ND		ug/kg	89	--	1
Diisopropyl Ether	ND		ug/kg	89	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	89	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	89	--	1
1,4-Dioxane	ND		ug/kg	3600	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	94		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-13
Client ID: 50TUFT-B105(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 11:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 19:56
Analyst: MAG
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.1	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.8	--	1
Carbon tetrachloride	ND		ug/kg	1.2	--	1
1,2-Dichloropropane	ND		ug/kg	1.2	--	1
Dibromochloromethane	ND		ug/kg	1.2	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	10		ug/kg	0.61	--	1
Chlorobenzene	ND		ug/kg	0.61	--	1
Trichlorofluoromethane	ND		ug/kg	4.8	--	1
1,2-Dichloroethane	ND		ug/kg	1.2	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	--	1
Bromodichloromethane	ND		ug/kg	0.61	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.61	--	1
1,1-Dichloropropene	ND		ug/kg	0.61	--	1
Bromoform	ND		ug/kg	4.8	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	--	1
Benzene	ND		ug/kg	0.61	--	1
Toluene	ND		ug/kg	1.2	--	1
Ethylbenzene	ND		ug/kg	1.2	--	1
Chloromethane	ND		ug/kg	4.8	--	1
Bromomethane	ND		ug/kg	2.4	--	1
Vinyl chloride	ND		ug/kg	1.2	--	1
Chloroethane	ND		ug/kg	2.4	--	1
1,1-Dichloroethene	ND		ug/kg	1.2	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-13
Client ID: 50TUFT-B105(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 11:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.61	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	--	1
Methyl tert butyl ether	ND		ug/kg	2.4	--	1
p/m-Xylene	ND		ug/kg	2.4	--	1
o-Xylene	ND		ug/kg	1.2	--	1
Xylenes, Total	ND		ug/kg	1.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	--	1
Dibromomethane	ND		ug/kg	2.4	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	--	1
Styrene	ND		ug/kg	1.2	--	1
Dichlorodifluoromethane	ND		ug/kg	12	--	1
Acetone	ND		ug/kg	30	--	1
Carbon disulfide	ND		ug/kg	12	--	1
Methyl ethyl ketone	ND		ug/kg	12	--	1
Methyl isobutyl ketone	ND		ug/kg	12	--	1
2-Hexanone	ND		ug/kg	12	--	1
Bromochloromethane	ND		ug/kg	2.4	--	1
Tetrahydrofuran	ND		ug/kg	4.8	--	1
2,2-Dichloropropane	ND		ug/kg	2.4	--	1
1,2-Dibromoethane	ND		ug/kg	1.2	--	1
1,3-Dichloropropane	ND		ug/kg	2.4	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.61	--	1
Bromobenzene	ND		ug/kg	2.4	--	1
n-Butylbenzene	ND		ug/kg	1.2	--	1
sec-Butylbenzene	ND		ug/kg	1.2	--	1
tert-Butylbenzene	ND		ug/kg	2.4	--	1
o-Chlorotoluene	ND		ug/kg	2.4	--	1
p-Chlorotoluene	ND		ug/kg	2.4	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	--	1
Hexachlorobutadiene	ND		ug/kg	4.8	--	1
Isopropylbenzene	ND		ug/kg	1.2	--	1
p-Isopropyltoluene	ND		ug/kg	1.2	--	1
Naphthalene	ND		ug/kg	4.8	--	1
n-Propylbenzene	ND		ug/kg	1.2	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-13
Client ID: 50TUFT-B105(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 11:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	--	1
Diethyl ether	ND		ug/kg	2.4	--	1
Diisopropyl Ether	ND		ug/kg	2.4	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.4	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.4	--	1
1,4-Dioxane	ND		ug/kg	97	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	96		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/15/24 13:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07,12 Batch: WG1886042-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/15/24 13:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07,12 Batch: WG1886042-5					
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	100	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/15/24 13:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07,12 Batch: WG1886042-5					
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	92		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/15/24 13:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05,08-11,13 Batch: WG1886062-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/15/24 13:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05,08-11,13 Batch: WG1886062-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	25	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	2.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/15/24 13:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05,08-11,13 Batch: WG1886062-5					
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	92		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/20/24 10:26
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06 Batch: WG1887347-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	76		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/20/24 10:26
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06 Batch: WG1887347-5					
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	100	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/20/24 10:26
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06 Batch: WG1887347-5					
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	94		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/21/24 09:56
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06 Batch: WG1887734-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/21/24 09:56
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06 Batch: WG1887734-5					
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	100	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/21/24 09:56
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06 Batch: WG1887734-5					
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07,12 Batch: WG1886042-3 WG1886042-4								
Methylene chloride	77		78		70-130	1		20
1,1-Dichloroethane	81		81		70-130	0		20
Chloroform	84		84		70-130	0		20
Carbon tetrachloride	73		73		70-130	0		20
1,2-Dichloropropane	85		85		70-130	0		20
Dibromochloromethane	90		90		70-130	0		20
1,1,2-Trichloroethane	86		86		70-130	0		20
Tetrachloroethene	91		90		70-130	1		20
Chlorobenzene	86		85		70-130	1		20
Trichlorofluoromethane	73		72		70-130	1		20
1,2-Dichloroethane	84		84		70-130	0		20
1,1,1-Trichloroethane	86		85		70-130	1		20
Bromodichloromethane	87		86		70-130	1		20
trans-1,3-Dichloropropene	92		92		70-130	0		20
cis-1,3-Dichloropropene	92		92		70-130	0		20
1,1-Dichloropropene	88		88		70-130	0		20
Bromoform	89		87		70-130	2		20
1,1,2,2-Tetrachloroethane	83		82		70-130	1		20
Benzene	84		84		70-130	0		20
Toluene	84		84		70-130	0		20
Ethylbenzene	86		86		70-130	0		20
Chloromethane	**67**	Q	**67**	Q	70-130	0		20
Bromomethane	73		73		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab	Associated sample(s): 07,12		Batch: WG1886042-3 WG1886042-4					
Vinyl chloride	72		72		70-130	0		20
Chloroethane	78		78		70-130	0		20
1,1-Dichloroethene	**68**	Q	**68**	Q	70-130	0		20
trans-1,2-Dichloroethene	80		80		70-130	0		20
Trichloroethene	86		86		70-130	0		20
1,2-Dichlorobenzene	88		87		70-130	1		20
1,3-Dichlorobenzene	88		87		70-130	1		20
1,4-Dichlorobenzene	87		86		70-130	1		20
Methyl tert butyl ether	86		86		70-130	0		20
p/m-Xylene	88		88		70-130	0		20
o-Xylene	88		88		70-130	0		20
cis-1,2-Dichloroethene	84		83		70-130	1		20
Dibromomethane	86		84		70-130	2		20
1,2,3-Trichloropropane	82		81		70-130	1		20
Styrene	90		90		70-130	0		20
Dichlorodifluoromethane	**62**	Q	**62**	Q	70-130	0		20
Acetone	**64**	Q	**64**	Q	70-130	0		20
Carbon disulfide	**68**	Q	**68**	Q	70-130	0		20
Methyl ethyl ketone	71		71		70-130	0		20
Methyl isobutyl ketone	85		85		70-130	0		20
2-Hexanone	78		76		70-130	3		20
Bromochloromethane	87		86		70-130	1		20
Tetrahydrofuran	**65**	Q	**64**	Q	70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07,12 Batch: WG1886042-3 WG1886042-4								
2,2-Dichloropropane	87		86		70-130	1		20
1,2-Dibromoethane	88		87		70-130	1		20
1,3-Dichloropropane	86		85		70-130	1		20
1,1,1,2-Tetrachloroethane	89		89		70-130	0		20
Bromobenzene	89		88		70-130	1		20
n-Butylbenzene	91		89		70-130	2		20
sec-Butylbenzene	89		88		70-130	1		20
tert-Butylbenzene	89		89		70-130	0		20
o-Chlorotoluene	88		87		70-130	1		20
p-Chlorotoluene	88		88		70-130	0		20
1,2-Dibromo-3-chloropropane	82		80		70-130	2		20
Hexachlorobutadiene	84		82		70-130	2		20
Isopropylbenzene	89		88		70-130	1		20
p-Isopropyltoluene	90		89		70-130	1		20
Naphthalene	88		86		70-130	2		20
n-Propylbenzene	88		88		70-130	0		20
1,2,3-Trichlorobenzene	92		90		70-130	2		20
1,2,4-Trichlorobenzene	94		90		70-130	4		20
1,3,5-Trimethylbenzene	90		88		70-130	2		20
1,2,4-Trimethylbenzene	90		89		70-130	1		20
Diethyl ether	86		85		70-130	1		20
Diisopropyl Ether	83		83		70-130	0		20
Ethyl-Tert-Butyl-Ether	91		90		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07,12 Batch: WG1886042-3 WG1886042-4								
Tertiary-Amyl Methyl Ether	94		93		70-130	1		20
1,4-Dioxane	87		84		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		89		70-130
Toluene-d8	92		92		70-130
4-Bromofluorobenzene	94		94		70-130
Dibromofluoromethane	91		92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,08-11,13 Batch: WG1886062-3 WG1886062-4								
Methylene chloride	77		78		70-130	1		20
1,1-Dichloroethane	81		81		70-130	0		20
Chloroform	84		84		70-130	0		20
Carbon tetrachloride	73		73		70-130	0		20
1,2-Dichloropropane	85		85		70-130	0		20
Dibromochloromethane	90		90		70-130	0		20
1,1,2-Trichloroethane	86		86		70-130	0		20
Tetrachloroethene	91		90		70-130	1		20
Chlorobenzene	86		85		70-130	1		20
Trichlorofluoromethane	73		72		70-130	1		20
1,2-Dichloroethane	84		84		70-130	0		20
1,1,1-Trichloroethane	86		85		70-130	1		20
Bromodichloromethane	87		86		70-130	1		20
trans-1,3-Dichloropropene	92		92		70-130	0		20
cis-1,3-Dichloropropene	92		92		70-130	0		20
1,1-Dichloropropene	88		88		70-130	0		20
Bromoform	89		87		70-130	2		20
1,1,2,2-Tetrachloroethane	83		82		70-130	1		20
Benzene	84		84		70-130	0		20
Toluene	84		84		70-130	0		20
Ethylbenzene	86		86		70-130	0		20
Chloromethane	**67**	Q	**67**	Q	70-130	0		20
Bromomethane	73		73		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,08-11,13 Batch: WG1886062-3 WG1886062-4								
Vinyl chloride	72		72		70-130	0		20
Chloroethane	78		78		70-130	0		20
1,1-Dichloroethene	**68**	Q	**68**	Q	70-130	0		20
trans-1,2-Dichloroethene	80		80		70-130	0		20
Trichloroethene	86		86		70-130	0		20
1,2-Dichlorobenzene	88		87		70-130	1		20
1,3-Dichlorobenzene	88		87		70-130	1		20
1,4-Dichlorobenzene	87		86		70-130	1		20
Methyl tert butyl ether	86		86		70-130	0		20
p/m-Xylene	88		88		70-130	0		20
o-Xylene	88		88		70-130	0		20
cis-1,2-Dichloroethene	84		83		70-130	1		20
Dibromomethane	86		84		70-130	2		20
1,2,3-Trichloropropane	82		81		70-130	1		20
Styrene	90		90		70-130	0		20
Dichlorodifluoromethane	**62**	Q	**62**	Q	70-130	0		20
Acetone	**64**	Q	**64**	Q	70-130	0		20
Carbon disulfide	**68**	Q	**68**	Q	70-130	0		20
Methyl ethyl ketone	71		71		70-130	0		20
Methyl isobutyl ketone	85		85		70-130	0		20
2-Hexanone	78		76		70-130	3		20
Bromochloromethane	87		86		70-130	1		20
Tetrahydrofuran	**65**	Q	**64**	Q	70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,08-11,13 Batch: WG1886062-3 WG1886062-4								
2,2-Dichloropropane	87		86		70-130	1		20
1,2-Dibromoethane	88		87		70-130	1		20
1,3-Dichloropropane	86		85		70-130	1		20
1,1,1,2-Tetrachloroethane	89		89		70-130	0		20
Bromobenzene	89		88		70-130	1		20
n-Butylbenzene	91		89		70-130	2		20
sec-Butylbenzene	89		88		70-130	1		20
tert-Butylbenzene	89		89		70-130	0		20
o-Chlorotoluene	88		87		70-130	1		20
p-Chlorotoluene	88		88		70-130	0		20
1,2-Dibromo-3-chloropropane	82		80		70-130	2		20
Hexachlorobutadiene	84		82		70-130	2		20
Isopropylbenzene	89		88		70-130	1		20
p-Isopropyltoluene	90		89		70-130	1		20
Naphthalene	88		86		70-130	2		20
n-Propylbenzene	88		88		70-130	0		20
1,2,3-Trichlorobenzene	92		90		70-130	2		20
1,2,4-Trichlorobenzene	94		90		70-130	4		20
1,3,5-Trimethylbenzene	90		88		70-130	2		20
1,2,4-Trimethylbenzene	90		89		70-130	1		20
Diethyl ether	86		85		70-130	1		20
Diisopropyl Ether	83		83		70-130	0		20
Ethyl-Tert-Butyl-Ether	91		90		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,08-11,13 Batch: WG1886062-3 WG1886062-4								
Tertiary-Amyl Methyl Ether	94		93		70-130	1		20
1,4-Dioxane	87		84		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		89		70-130
Toluene-d8	92		92		70-130
4-Bromofluorobenzene	94		94		70-130
Dibromofluoromethane	91		92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1887347-3 WG1887347-4								
Methylene chloride	95		93		70-130	2		20
1,1-Dichloroethane	97		93		70-130	4		20
Chloroform	98		95		70-130	3		20
Carbon tetrachloride	100		97		70-130	3		20
1,2-Dichloropropane	90		87		70-130	3		20
Dibromochloromethane	96		95		70-130	1		20
1,1,2-Trichloroethane	87		86		70-130	1		20
Tetrachloroethene	111		106		70-130	5		20
Chlorobenzene	103		100		70-130	3		20
Trichlorofluoromethane	113		110		70-130	3		20
1,2-Dichloroethane	86		85		70-130	1		20
1,1,1-Trichloroethane	113		108		70-130	5		20
Bromodichloromethane	93		91		70-130	2		20
trans-1,3-Dichloropropene	90		88		70-130	2		20
cis-1,3-Dichloropropene	96		93		70-130	3		20
1,1-Dichloropropene	106		102		70-130	4		20
Bromoform	87		87		70-130	0		20
1,1,2,2-Tetrachloroethane	76		78		70-130	3		20
Benzene	103		99		70-130	4		20
Toluene	103		98		70-130	5		20
Ethylbenzene	104		101		70-130	3		20
Chloromethane	**68**	Q	**64**	Q	70-130	6		20
Bromomethane	120		109		70-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1887347-3 WG1887347-4								
Vinyl chloride	80		76		70-130	5		20
Chloroethane	98		93		70-130	5		20
1,1-Dichloroethene	110		106		70-130	4		20
trans-1,2-Dichloroethene	107		104		70-130	3		20
Trichloroethene	110		106		70-130	4		20
1,2-Dichlorobenzene	100		97		70-130	3		20
1,3-Dichlorobenzene	104		101		70-130	3		20
1,4-Dichlorobenzene	103		99		70-130	4		20
Methyl tert butyl ether	85		85		70-130	0		20
p/m-Xylene	110		106		70-130	4		20
o-Xylene	104		101		70-130	3		20
cis-1,2-Dichloroethene	102		98		70-130	4		20
Dibromomethane	89		87		70-130	2		20
1,2,3-Trichloropropane	76		77		70-130	1		20
Styrene	102		99		70-130	3		20
Dichlorodifluoromethane	**49**	Q	**46**	Q	70-130	6		20
Acetone	**68**	Q	**67**	Q	70-130	1		20
Carbon disulfide	97		94		70-130	3		20
Methyl ethyl ketone	**62**	Q	**65**	Q	70-130	5		20
Methyl isobutyl ketone	**69**	Q	70		70-130	1		20
2-Hexanone	**64**	Q	**65**	Q	70-130	2		20
Bromochloromethane	97		95		70-130	2		20
Tetrahydrofuran	**58**	Q	**63**	Q	70-130	8		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1887347-3 WG1887347-4								
2,2-Dichloropropane	106		101		70-130	5		20
1,2-Dibromoethane	92		91		70-130	1		20
1,3-Dichloropropane	88		87		70-130	1		20
1,1,1,2-Tetrachloroethane	102		100		70-130	2		20
Bromobenzene	99		96		70-130	3		20
n-Butylbenzene	107		103		70-130	4		20
sec-Butylbenzene	108		103		70-130	5		20
tert-Butylbenzene	107		102		70-130	5		20
o-Chlorotoluene	95		94		70-130	1		20
p-Chlorotoluene	98		93		70-130	5		20
1,2-Dibromo-3-chloropropane	74		79		70-130	7		20
Hexachlorobutadiene	115		111		70-130	4		20
Isopropylbenzene	105		100		70-130	5		20
p-Isopropyltoluene	108		104		70-130	4		20
Naphthalene	95		91		70-130	4		20
n-Propylbenzene	104		100		70-130	4		20
1,2,3-Trichlorobenzene	103		100		70-130	3		20
1,2,4-Trichlorobenzene	109		105		70-130	4		20
1,3,5-Trimethylbenzene	102		98		70-130	4		20
1,2,4-Trimethylbenzene	99		95		70-130	4		20
Diethyl ether	89		89		70-130	0		20
Diisopropyl Ether	85		82		70-130	4		20
Ethyl-Tert-Butyl-Ether	87		86		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1887347-3 WG1887347-4								
Tertiary-Amyl Methyl Ether	87		87		70-130	0		20
1,4-Dioxane	77		76		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	84		84		70-130
Toluene-d8	92		91		70-130
4-Bromofluorobenzene	87		87		70-130
Dibromofluoromethane	96		97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1887734-3 WG1887734-4								
Methylene chloride	96		96		70-130	0		20
1,1-Dichloroethane	98		98		70-130	0		20
Chloroform	99		100		70-130	1		20
Carbon tetrachloride	99		99		70-130	0		20
1,2-Dichloropropane	92		92		70-130	0		20
Dibromochloromethane	98		101		70-130	3		20
1,1,2-Trichloroethane	90		92		70-130	2		20
Tetrachloroethene	108		108		70-130	0		20
Chlorobenzene	103		104		70-130	1		20
Trichlorofluoromethane	106		106		70-130	0		20
1,2-Dichloroethane	88		90		70-130	2		20
1,1,1-Trichloroethane	112		111		70-130	1		20
Bromodichloromethane	96		96		70-130	0		20
trans-1,3-Dichloropropene	92		93		70-130	1		20
cis-1,3-Dichloropropene	97		98		70-130	1		20
1,1-Dichloropropene	104		104		70-130	0		20
Bromoform	94		96		70-130	2		20
1,1,2,2-Tetrachloroethane	84		85		70-130	1		20
Benzene	103		104		70-130	1		20
Toluene	102		102		70-130	0		20
Ethylbenzene	105		105		70-130	0		20
Chloromethane	**66**	Q	**65**	Q	70-130	2		20
Bromomethane	108		108		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1887734-3 WG1887734-4								
Vinyl chloride	75		76		70-130	1		20
Chloroethane	95		95		70-130	0		20
1,1-Dichloroethene	108		107		70-130	1		20
trans-1,2-Dichloroethene	108		107		70-130	1		20
Trichloroethene	108		109		70-130	1		20
1,2-Dichlorobenzene	102		102		70-130	0		20
1,3-Dichlorobenzene	106		105		70-130	1		20
1,4-Dichlorobenzene	104		104		70-130	0		20
Methyl tert butyl ether	88		90		70-130	2		20
p/m-Xylene	109		110		70-130	1		20
o-Xylene	104		104		70-130	0		20
cis-1,2-Dichloroethene	102		103		70-130	1		20
Dibromomethane	92		93		70-130	1		20
1,2,3-Trichloropropane	81		83		70-130	2		20
Styrene	101		101		70-130	0		20
Dichlorodifluoromethane	**41**	Q	**41**	Q	70-130	0		20
Acetone	77		**69**	Q	70-130	11		20
Carbon disulfide	96		96		70-130	0		20
Methyl ethyl ketone	**68**	Q	70		70-130	3		20
Methyl isobutyl ketone	73		76		70-130	4		20
2-Hexanone	**69**	Q	70		70-130	1		20
Bromochloromethane	98		99		70-130	1		20
Tetrahydrofuran	**64**	Q	**64**	Q	70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1887734-3 WG1887734-4								
2,2-Dichloropropane	105		105		70-130	0		20
1,2-Dibromoethane	95		96		70-130	1		20
1,3-Dichloropropane	90		92		70-130	2		20
1,1,1,2-Tetrachloroethane	104		105		70-130	1		20
Bromobenzene	101		100		70-130	1		20
n-Butylbenzene	108		106		70-130	2		20
sec-Butylbenzene	108		107		70-130	1		20
tert-Butylbenzene	107		106		70-130	1		20
o-Chlorotoluene	95		98		70-130	3		20
p-Chlorotoluene	99		98		70-130	1		20
1,2-Dibromo-3-chloropropane	86		87		70-130	1		20
Hexachlorobutadiene	116		115		70-130	1		20
Isopropylbenzene	104		104		70-130	0		20
p-Isopropyltoluene	109		108		70-130	1		20
Naphthalene	96		96		70-130	0		20
n-Propylbenzene	105		104		70-130	1		20
1,2,3-Trichlorobenzene	107		107		70-130	0		20
1,2,4-Trichlorobenzene	114		112		70-130	2		20
1,3,5-Trimethylbenzene	103		101		70-130	2		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20
Diethyl ether	91		94		70-130	3		20
Diisopropyl Ether	86		87		70-130	1		20
Ethyl-Tert-Butyl-Ether	90		91		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1887734-3 WG1887734-4								
Tertiary-Amyl Methyl Ether	89		91		70-130	2		20
1,4-Dioxane	90		91		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	84		86		70-130
Toluene-d8	91		91		70-130
4-Bromofluorobenzene	85		86		70-130
Dibromofluoromethane	96		98		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-01
Client ID: 50TUFT-B101(0-1)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 08:30
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.0		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-02
Client ID: 50TUFT-B101(1-3)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 08:31
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.7		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-03
Client ID: 50TUFT-B101(3-5)
Sample Location: SOMERVILLE, MA

Date Collected: 02/12/24 08:32
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.1		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-04
Client ID: 50TUFT-B102(0-1)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 09:00
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.6		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-05
Client ID: 50TUFT-B102(1-3)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 09:01
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.6		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-06
Client ID: 50TUFT-B103(0-1)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 09:30
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.1		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-07
Client ID: 50TUFT-B103(1-3)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 09:31
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.4		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-08
Client ID: 50TUFT-B103(3-5)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 09:32
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.7		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-09
Client ID: 50TUFT-B104(0-1)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 10:00
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.8		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-10
Client ID: 50TUFT-B104(1-3)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 10:01
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.6		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-11
Client ID: 50TUFT-B104(3-5)
Sample Location: SOMERVILLE, MA

Date Collected: 02/12/24 10:02
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.3		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-12
Client ID: 50TUFT-B105(0-1)
Sample Location: SOMERVILLE, MA

Date Collected: 02/12/24 11:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.1		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-13
Client ID: 50TUFT-B105(1-3)
Sample Location: SOMERVILLE, MA

Date Collected: 02/12/24 11:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.8		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Lab Duplicate Analysis

Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1885410-1 QC Sample: L2408101-01 Client ID: 50TUFT-B101(0-1)						
Solids, Total	80.0	79.7	%	0		20

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2408101-01A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-01B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-01C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-01D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-02A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-02B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-02C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-02D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-03A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-03B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-03C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-03D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-04A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-04B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-04C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-04D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-05A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-05B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-05C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-05D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-06A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-06B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-06C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)

*Values in parentheses indicate holding time in days

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2408101-06D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-07A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-07B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-07C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-07D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-08A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-08B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-08C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-08D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-09A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-09B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-09C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-09D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-10A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-10B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-10C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-10D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-11A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-11B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-11C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-11D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-12A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-12B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-12C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-12D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-13A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-13B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-13C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)

*Values in parentheses indicate holding time in days

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2408101-13D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name:	TUFTS STREET	**Lab Number:**	L2408101
Project Number:	045163	**Report Date:**	02/21/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2408101
Project Number:	045163	**Report Date:**	02/21/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2408101
Project Number:	045163	**Report Date:**	02/21/24

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2408101
Project Number:	045163	**Report Date:**	02/21/24

REFERENCES

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

141 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA and IIB, November 2021.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Chain-of-Custody Record

Laboratory: Alpha

Laboratory Job # (Lab use only) L2408101

GEI Consultants
400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000

Project Information

Project Name: Tufts St

Project Location: Somerville, MA

Project Number: 045163

Project Manager: Chris Coner

Send Report to: cconer@geiconsultants.com
labdata@geiconsultants.com

MCP PRESUMPTIVE CERTAINTY AND MCP ANALYTICAL METHODS REQUIRED: (YES) NO

STATE AND FEDERAL REGULATORY REQUIREMENTS/REPORT LIMITS

State/Federal Program: (MA) 401WQC Other _____ NH RI CT NY ME

MA MCP Criteria are Method 1 S-1 and (GW-2/GW-3). Circle if GW-1 is required.

Preservative: MeOH/H2O | None

Analysis: VOCs (8260) | % Solids

Sample Handling

Samples Field Filtered: YES NO (NA)

Sampled Shipped With Ice: (YES) NO

Lab Sample Number	GEI Sample ID	Collection Date	Collection Time	Matrix	No. of Bottles	Sampler(s) Initials	VOCs (8260)	% Solids	Sample Specific Remarks
08101-01	50TUFT-B101(0-1)	2/12/2024	8:30	SO	4	NMT	X	X	
02	50TUFT-B101(1-3)	2/12/2024	8:31	SO	4	NMT	X	X	
03	50TUFT-B101(3-5)	2/12/2024	8:32	SO	4	NMT	X	X	
04	50TUFT-B102(0-1)	2/12/2024	9:00	SO	4	NMT	X	X	
05	50TUFT-B102(1-3)	2/12/2024	9:01	SO	4	NMT	X	X	
06	50TUFT-B103(0-1)	2/12/2024	9:30	SO	4	NMT	X	X	
07	50TUFT-B103(1-3)	2/12/2024	9:31	SO	4	NMT	X	X	
08	50TUFT-B103(3-5)	2/12/2024	9:32	SO	4	NMT	X	X	
09	50TUFT-B104(0-1)	2/12/2024	10:00	SO	4	NMT	X	X	
10	50TUFT-B104(1-3)	2/12/2024	10:01	SO	4	NMT	X	X	
11	50TUFT-B104(3-5)	2/12/2024	10:02	SO	4	NMT	X	X	
12	50TUFT-B105(0-1)	2/12/2024	11:00	SO	4	NMT	X	X	

	Relinquished by sampler: (signature)	Date	Time	Received by: (signature)
1.	Nicholas Truccolo	2/12/2024	12:45	1. GEI Sample Fridge
2.	GEI Sample Fridge	2/14/24	1200	2.
3.		2/14/24	1200	3. 2/14 1200
4.		12/14/	16:15	4.
5.				5.

Turnaround Time (Business days):

Standard TAT X 4-Day ____ 3-Day ____
2-Day ____ 1-Day ____ Other ____

Before submitting rush turnaround samples, you **must** notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

VOAs frozen on 2/12/2024

Sample Matrix Abbreviations: SO = Soil GW = Groundwater SW = Surface Water SD = Sediment CO = Concrete PC = Paint Chip CLK = Caulk

Chain-of-Custody Record

Laboratory: Alpha

Laboratory Job # (Lab use only) L2408101

GEI Consultants
400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000

Project Information

Project Name: Tufts St
Project Location: Somerville, MA
Project Number: 045163
Project Manager: Chris Coner

Send Report to: cconer@geiconsultants.com
labdata@geiconsultants.com

Preservative

MeOH:DI H2O	None								

Analysis

VOCs (8260)	% Solids								

Sample Handling

Samples Field Filtered: YES NO (NA)

Sampled Shipped With Ice: (YES) NO

MCP PRESUMPTIVE CERTAINTY AND MCP ANALYTICAL METHODS REQUIRED: (YES) NO

STATE AND FEDERAL REGULATORY REQUIREMENTS/REPORT LIMITS

State/Federal Program: (MA) 401WQC Other _____ NH RI CT NY ME

MA MCP Criteria are Method 1 S-1 and GW-2/GW-3. Circle if GW-1 is required.

Lab Sample Number	GEI Sample ID	Collection Date	Collection Time	Matrix	No. of Bottles	Sampler(s) Initials	Sample Specific Remarks
08101-13	50TUFT-B105(1-3)	2/12/2024	11:01	SO	4	NMT	

Relinquished by sampler: (signature)	Date:	Time:	Received by: (signature)
1. Nicholas Fuoccolo	2/12/2024	12:45	1. GEI Sample Fridge
Relinquished by sampler: (signature)	Date:	Time:	Received by: (signature)
2. GEI Sample Fridge	2/14/24	1200	2.
Relinquished by: (signature)	Date:	Time:	Received by: (signature)
3.	2/14/24	1207	3. 2/14/24 12:4
Relinquished by: (signature)	Date:	Time:	Received by: (signature)
4.	2/14/24	1415	4.
Relinquished by: (signature)	Date:	Time:	Received by: (signature)
5.			5.

Turnaround Time (Business days):

Standard TAT X 4-Day ____ 3-Day ____
2-Day ____ 1-Day ____ Other ____

Before submitting rush turnaround samples, you **must** notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

VOAs frozen on 2/12/2024

Sample Matrix Abbreviations: SO = Soil GW = Groundwater SW = Surface Water SD = Sediment CO = Concrete PC = Paint Chip CLK = Caulk

Method Blank Summary
Form 4
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Lab Sample ID	: WG1886042-5	**Lab File ID**	: V00240215A06
Instrument ID	: VOA100		
Matrix	: SOIL	**Analysis Date**	: 02/15/24 13:52

Client Sample No.	Lab Sample ID	Analysis Date
WG1886042-3LCS	WG1886042-3	02/15/24 11:51
WG1886042-4LCSD	WG1886042-4	02/15/24 12:22
50TUFT-B103(1-3)	L2408101-07	02/15/24 20:26
50TUFT-B105(0-1)	L2408101-12	02/15/24 20:57

Method Blank Summary
Form 4
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Lab Sample ID	: WG1886062-5	**Lab File ID**	: V00240215A06
Instrument ID	: VOA100		
Matrix	: SOIL	**Analysis Date**	: 02/15/24 13:52

Client Sample No.	Lab Sample ID	Analysis Date
WG1886062-3LCS	WG1886062-3	02/15/24 11:51
WG1886062-4LCSD	WG1886062-4	02/15/24 12:22
50TUFT-B101(0-1)	L2408101-01	02/15/24 15:23
50TUFT-B101(1-3)	L2408101-02	02/15/24 15:54
50TUFT-B101(3-5)	L2408101-03	02/15/24 16:24
50TUFT-B102(0-1)	L2408101-04	02/15/24 16:54
50TUFT-B102(1-3)	L2408101-05	02/15/24 17:25
50TUFT-B103(3-5)	L2408101-08	02/15/24 17:55
50TUFT-B104(0-1)	L2408101-09	02/15/24 18:25
50TUFT-B104(1-3)	L2408101-10	02/15/24 18:56
50TUFT-B104(3-5)	L2408101-11	02/15/24 19:26
50TUFT-B105(1-3)	L2408101-13	02/15/24 19:56

Method Blank Summary
Form 4
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Lab Sample ID	: WG1887347-5	**Lab File ID**	: V23240220A05
Instrument ID	: VOA123		
Matrix	: SOIL	**Analysis Date**	: 02/20/24 10:26

Client Sample No.	Lab Sample ID	Analysis Date
WG1887347-3LCS	WG1887347-3	02/20/24 08:43
WG1887347-4LCSD	WG1887347-4	02/20/24 09:09
50TUFT-B103(0-1)	L2408101-06	02/20/24 14:19

Method Blank Summary
Form 4
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Lab Sample ID	: WG1887734-5	**Lab File ID**	: V23240221A05
Instrument ID	: VOA123		
Matrix	: SOIL	**Analysis Date**	: 02/21/24 09:56

Client Sample No.	Lab Sample ID	Analysis Date
WG1887734-3LCS	WG1887734-3	02/21/24 08:39
WG1887734-4LCSD	WG1887734-4	02/21/24 09:05
50TUFT-B103(0-1)	L2408101-06D	02/21/24 12:25

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		Lab Number	: L2408101	
Project Name	: TUFTS STREET		Project Number	: 045163	
Instrument ID	: VOA100		Calibration Date	: 02/15/24 11:51	
Lab File ID	: V00240215A02		Init. Calib. Date(s)	: 02/07/24	02/08/24
Sample No	: WG1886062-2		Init. Calib. Times	: 20:14	01:16
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	159	0
Dichlorodifluoromethane	0.319	0.199	-	37.6*	20	106	0
Chloromethane	0.487	0.328	-	32.6*	20	105	0
Vinyl chloride	0.371	0.265	-	28.6*	20	113	0
Bromomethane	0.176	0.129	-	26.7*	20	118	0
Chloroethane	0.187	0.145	-	22.5*	20	117	0
Trichlorofluoromethane	0.338	0.247	-	26.9*	20	125	0
Ethyl ether	0.105	0.091	-	13.3	20	130	0
1,1-Dichloroethene	40	27.291	-	31.8*	20	127	0
Carbon disulfide	0.84	0.567	-	32.5*	20	122	0
Methylene chloride	0.23	0.178	-	22.6*	20	121	0
Acetone	0.086	0.056	-	34.9*	20	110	0
trans-1,2-Dichloroethene	0.224	0.179	-	20.1*	20	124	0
Methyl tert-butyl ether	0.574	0.494	-	13.9	20	131	0
Diisopropyl ether	1.101	0.913	-	17.1	20	123	0
1,1-Dichloroethane	0.55	0.445	-	19.1	20	122	0
Ethyl tert-butyl ether	0.911	0.825	-	9.4	20	133	0
cis-1,2-Dichloroethene	0.267	0.223	-	16.5	20	129	0
2,2-Dichloropropane	0.344	0.298	-	13.4	20	139	0
Bromochloromethane	0.125	0.108	-	13.6	20	131	0
Chloroform	0.431	0.364	-	15.5	20	128	0
Carbon tetrachloride	40	29.31	-	26.7*	20	139	0
Tetrahydrofuran	0.09	0.059	-	34.4*	20	114	0
Dibromofluoromethane	0.275	0.25	-	9.1	20	142	0
1,1,1-Trichloroethane	0.352	0.302	-	14.2	20	135	0
2-Butanone	0.125	0.089	-	28.8*	20	118	0
1,1-Dichloropropene	0.307	0.269	-	12.4	20	138	0
Benzene	0.934	0.783	-	16.2	20	127	0
tert-Amyl methyl ether	0.606	0.567	-	6.4	20	141	0
1,2-Dichloroethane-d4	0.301	0.27	-	10.3	20	146	0
1,2-Dichloroethane	0.342	0.287	-	16.1	20	130	0
Trichloroethene	0.242	0.208	-	14	20	138	0
Dibromomethane	0.137	0.118	-	13.9	20	128	0
1,2-Dichloropropane	0.302	0.255	-	15.6	20	126	0
Bromodichloromethane	0.308	0.267*	-	13.3	20	126	0
1,4-Dioxane	0.00217	0.00189*	-	12.9	20	123	0
cis-1,3-Dichloropropene	0.362	0.333	-	8	20	130	0
Chlorobenzene-d5	1	1	-	0	20	155	0
Toluene-d8	1.383	1.273	-	8	20	142	0
Toluene	0.781	0.659	-	15.6	20	128	0
4-Methyl-2-pentanone	0.12	0.102	-	15	20	123	0
Tetrachloroethene	0.325	0.297	-	8.6	20	140	0
trans-1,3-Dichloropropene	0.418	0.384	-	8.1	20	133	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		**Lab Number**	: L2408101	
Project Name	: TUFTS STREET		**Project Number**	: 045163	
Instrument ID	: VOA100		**Calibration Date**	: 02/15/24 11:51	
Lab File ID	: V00240215A02		**Init. Calib. Date(s)**	: 02/07/24	02/08/24
Sample No	: WG1886062-2		**Init. Calib. Times**	: 20:14	01:16
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,1,2-Trichloroethane	0.208	0.179*	-	13.9	20	129	0
Chlorodibromomethane	0.31	0.28	-	9.7	20	131	0
1,3-Dichloropropane	0.436	0.375	-	14	20	129	0
1,2-Dibromoethane	0.252	0.223	-	11.5	20	130	0
2-Hexanone	0.224	0.174	-	22.3*	20	118	0
Chlorobenzene	0.884	0.756	-	14.5	20	129	0
Ethylbenzene	1.461	1.258	-	13.9	20	132	0
1,1,1,2-Tetrachloroethane	0.315	0.281	-	10.8	20	128	0
p/m Xylene	0.563	0.498	-	11.5	20	132	0
o Xylene	0.551	0.484	-	12.2	20	129	0
Styrene	0.901	0.81	-	10.1	20	130	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	152	0
Bromoform	0.373	0.333	-	10.7	20	131	0
Isopropylbenzene	2.707	2.418	-	10.7	20	134	0
4-Bromofluorobenzene	0.905	0.852	-	5.9	20	144	0
Bromobenzene	0.701	0.621	-	11.4	20	131	0
n-Propylbenzene	3.172	2.808	-	11.5	20	135	0
1,1,2,2-Tetrachloroethane	0.592	0.491	-	17.1	20	124	0
2-Chlorotoluene	1.899	1.662	-	12.5	20	131	0
1,3,5-Trimethylbenzene	2.325	2.087	-	10.2	20	137	0
1,2,3-Trichloropropane	0.478	0.394	-	17.6	20	126	0
4-Chlorotoluene	1.944	1.719	-	11.6	20	136	0
tert-Butylbenzene	2.015	1.79	-	11.2	20	138	0
1,2,4-Trimethylbenzene	2.268	2.039	-	10.1	20	136	0
sec-Butylbenzene	2.967	2.653	-	10.6	20	139	0
p-Isopropyltoluene	2.612	2.361	-	9.6	20	141	0
1,3-Dichlorobenzene	1.387	1.219	-	12.1	20	131	0
1,4-Dichlorobenzene	1.4	1.222	-	12.7	20	132	0
n-Butylbenzene	2.247	2.037	-	9.3	20	137	0
1,2-Dichlorobenzene	1.285	1.136	-	11.6	20	129	0
1,2-Dibromo-3-chloropropan	0.111	0.091	-	18	20	118	0
Hexachlorobutadiene	0.494	0.418	-	15.4	20	139	0
1,2,4-Trichlorobenzene	0.905	0.847	-	6.4	20	140	0
Naphthalene	2.069	1.829	-	11.6	20	127	0
1,2,3-Trichlorobenzene	0.847	0.778	-	8.1	20	135	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Instrument ID	: VOA100	**Calibration Date**	: 02/15/24 11:51
Lab File ID	: V00240215A02	**Init. Calib. Date(s)**	: 02/07/24 02/08/24
Sample No	: WG1886042-2	**Init. Calib. Times**	: 20:14 01:16
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	159	0
Dichlorodifluoromethane	0.319	0.199	-	37.6*	20	106	0
Chloromethane	0.487	0.328	-	32.6*	20	105	0
Vinyl chloride	0.371	0.265	-	28.6*	20	113	0
Bromomethane	0.176	0.129	-	26.7*	20	118	0
Chloroethane	0.187	0.145	-	22.5*	20	117	0
Trichlorofluoromethane	0.338	0.247	-	26.9*	20	125	0
Ethyl ether	0.105	0.091	-	13.3	20	130	0
1,1-Dichloroethene	40	27.291	-	31.8*	20	127	0
Carbon disulfide	0.84	0.567	-	32.5*	20	122	0
Methylene chloride	0.23	0.178	-	22.6*	20	121	0
Acetone	0.086	0.056	-	34.9*	20	110	0
trans-1,2-Dichloroethene	0.224	0.179	-	20.1*	20	124	0
Methyl tert-butyl ether	0.574	0.494	-	13.9	20	131	0
Diisopropyl ether	1.101	0.913	-	17.1	20	123	0
1,1-Dichloroethane	0.55	0.445	-	19.1	20	122	0
Ethyl tert-butyl ether	0.911	0.825	-	9.4	20	133	0
cis-1,2-Dichloroethene	0.267	0.223	-	16.5	20	129	0
2,2-Dichloropropane	0.344	0.298	-	13.4	20	139	0
Bromochloromethane	0.125	0.108	-	13.6	20	131	0
Chloroform	0.431	0.364	-	15.5	20	128	0
Carbon tetrachloride	40	29.31	-	26.7*	20	139	0
Tetrahydrofuran	0.09	0.059	-	34.4*	20	114	0
Dibromofluoromethane	0.275	0.25	-	9.1	20	142	0
1,1,1-Trichloroethane	0.352	0.302	-	14.2	20	135	0
2-Butanone	0.125	0.089	-	28.8*	20	118	0
1,1-Dichloropropene	0.307	0.269	-	12.4	20	138	0
Benzene	0.934	0.783	-	16.2	20	127	0
tert-Amyl methyl ether	0.606	0.567	-	6.4	20	141	0
1,2-Dichloroethane-d4	0.301	0.27	-	10.3	20	146	0
1,2-Dichloroethane	0.342	0.287	-	16.1	20	130	0
Trichloroethene	0.242	0.208	-	14	20	138	0
Dibromomethane	0.137	0.118	-	13.9	20	128	0
1,2-Dichloropropane	0.302	0.255	-	15.6	20	126	0
Bromodichloromethane	0.308	0.267*	-	13.3	20	126	0
1,4-Dioxane	0.00217	0.00189*	-	12.9	20	123	0
cis-1,3-Dichloropropene	0.362	0.333	-	8	20	130	0
Chlorobenzene-d5	1	1	-	0	20	155	0
Toluene-d8	1.383	1.273	-	8	20	142	0
Toluene	0.781	0.659	-	15.6	20	128	0
4-Methyl-2-pentanone	0.12	0.102	-	15	20	123	0
Tetrachloroethene	0.325	0.297	-	8.6	20	140	0
trans-1,3-Dichloropropene	0.418	0.384	-	8.1	20	133	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Instrument ID	: VOA100	**Calibration Date**	: 02/15/24 11:51
Lab File ID	: V00240215A02	**Init. Calib. Date(s)**	: 02/07/24 02/08/24
Sample No	: WG1886042-2	**Init. Calib. Times**	: 20:14 01:16
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,1,2-Trichloroethane	0.208	0.179*	-	13.9	20	129	0
Chlorodibromomethane	0.31	0.28	-	9.7	20	131	0
1,3-Dichloropropane	0.436	0.375	-	14	20	129	0
1,2-Dibromoethane	0.252	0.223	-	11.5	20	130	0
2-Hexanone	0.224	0.174	-	22.3*	20	118	0
Chlorobenzene	0.884	0.756	-	14.5	20	129	0
Ethylbenzene	1.461	1.258	-	13.9	20	132	0
1,1,1,2-Tetrachloroethane	0.315	0.281	-	10.8	20	128	0
p/m Xylene	0.563	0.498	-	11.5	20	132	0
o Xylene	0.551	0.484	-	12.2	20	129	0
Styrene	0.901	0.81	-	10.1	20	130	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	152	0
Bromoform	0.373	0.333	-	10.7	20	131	0
Isopropylbenzene	2.707	2.418	-	10.7	20	134	0
4-Bromofluorobenzene	0.905	0.852	-	5.9	20	144	0
Bromobenzene	0.701	0.621	-	11.4	20	131	0
n-Propylbenzene	3.172	2.808	-	11.5	20	135	0
1,1,2,2-Tetrachloroethane	0.592	0.491	-	17.1	20	124	0
2-Chlorotoluene	1.899	1.662	-	12.5	20	131	0
1,3,5-Trimethylbenzene	2.325	2.087	-	10.2	20	137	0
1,2,3-Trichloropropane	0.478	0.394	-	17.6	20	126	0
4-Chlorotoluene	1.944	1.719	-	11.6	20	136	0
tert-Butylbenzene	2.015	1.79	-	11.2	20	138	0
1,2,4-Trimethylbenzene	2.268	2.039	-	10.1	20	136	0
sec-Butylbenzene	2.967	2.653	-	10.6	20	139	0
p-Isopropyltoluene	2.612	2.361	-	9.6	20	141	0
1,3-Dichlorobenzene	1.387	1.219	-	12.1	20	131	0
1,4-Dichlorobenzene	1.4	1.222	-	12.7	20	132	0
n-Butylbenzene	2.247	2.037	-	9.3	20	137	0
1,2-Dichlorobenzene	1.285	1.136	-	11.6	20	129	0
1,2-Dibromo-3-chloropropan	0.111	0.091	-	18	20	118	0
Hexachlorobutadiene	0.494	0.418	-	15.4	20	139	0
1,2,4-Trichlorobenzene	0.905	0.847	-	6.4	20	140	0
Naphthalene	2.069	1.829	-	11.6	20	127	0
1,2,3-Trichlorobenzene	0.847	0.778	-	8.1	20	135	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Instrument ID	: VOA123	**Calibration Date**	: 02/20/24 08:43
Lab File ID	: V23240220A01	**Init. Calib. Date(s)**	: 02/07/24 02/08/24
Sample No	: WG1887347-2	**Init. Calib. Times**	: 20:15 00:33
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	110	0
Dichlorodifluoromethane	0.309	0.151	-	51.1*	20	59	0
Chloromethane	0.428	0.293	-	31.5*	20	77	0
Vinyl chloride	40	32.022	-	19.9	20	100	0
Bromomethane	0.156	0.187	-	-19.9	20	140	0
Chloroethane	0.18	0.176	-	2.2	20	112	0
Trichlorofluoromethane	0.304	0.343	-	-12.8	20	135	0
Ethyl ether	0.14	0.124	-	11.4	20	98	0
1,1-Dichloroethene	0.224	0.246	-	-9.8	20	126	0
Carbon disulfide	0.855	0.83	-	2.9	20	115	0
Methylene chloride	0.302	0.288	-	4.6	20	108	0
Acetone	40	27.01	-	32.5*	20	78	0
trans-1,2-Dichloroethene	0.272	0.293	-	-7.7	20	121	0
Methyl tert-butyl ether	0.756	0.645	-	14.7	20	94	0
Diisopropyl ether	1.212	1.026	-	15.3	20	92	0
1,1-Dichloroethane	0.556	0.541	-	2.7	20	107	0
Ethyl tert-butyl ether	1.027	0.898	-	12.6	20	95	0
cis-1,2-Dichloroethene	0.318	0.323	-	-1.6	20	111	0
2,2-Dichloropropane	0.387	0.412	-	-6.5	20	120	0
Bromochloromethane	0.157	0.153	-	2.5	20	107	0
Chloroform	0.512	0.502	-	2	20	108	0
Carbon tetrachloride	40	40.218	-	-0.5	20	131	0
Tetrahydrofuran	0.098	0.057	-	41.8*	20	72	0
Dibromofluoromethane	0.262	0.251	-	4.2	20	106	0
1,1,1-Trichloroethane	0.397	0.45	-	-13.4	20	127	0
2-Butanone	0.133	0.082	-	38.3*	20	71	0
1,1-Dichloropropene	40	42.625	-	-6.6	20	127	0
Benzene	1.072	1.105	-	-3.1	20	113	0
tert-Amyl methyl ether	0.792	0.688	-	13.1	20	95	0
1,2-Dichloroethane-d4	0.27	0.226	-	16.3	20	94	0
1,2-Dichloroethane	0.394	0.339	-	14	20	94	0
Trichloroethene	0.28	0.309	-	-10.4	20	125	0
Dibromomethane	0.174	0.155	-	10.9	20	98	0
1,2-Dichloropropane	40	36.066	-	9.8	20	102	0
Bromodichloromethane	0.397	0.37	-	6.8	20	103	0
1,4-Dioxane	0.00235	0.0018*	-	23.4*	20	82	0
cis-1,3-Dichloropropene	0.451	0.431	-	4.4	20	100	0
Chlorobenzene-d5	1	1	-	0	20	113	0
Toluene-d8	1.396	1.279	-	8.4	20	103	0
Toluene	0.932	0.958	-	-2.8	20	118	0
4-Methyl-2-pentanone	0.138	0.096	-	30.4*	20	79	0
Tetrachloroethene	40	44.318	-	-10.8	20	145	0
trans-1,3-Dichloropropene	0.54	0.485	-	10.2	20	97	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Instrument ID	: VOA123	**Calibration Date**	: 02/20/24 08:43
Lab File ID	: V23240220A01	**Init. Calib. Date(s)**	: 02/07/24 02/08/24
Sample No	: WG1887347-2	**Init. Calib. Times**	: 20:15 00:33
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,1,2-Trichloroethane	0.275	0.241	-	12.4	20	98	0
Chlorodibromomethane	0.395	0.379	-	4.1	20	104	0
1,3-Dichloropropane	0.545	0.481	-	11.7	20	98	0
1,2-Dibromoethane	0.319	0.293	-	8.2	20	99	0
2-Hexanone	0.252	0.16	-	36.5*	20	70	0
Chlorobenzene	1.067	1.103	-	-3.4	20	115	0
Ethylbenzene	1.731	1.809	-	-4.5	20	120	0
1,1,1,2-Tetrachloroethane	0.398	0.407	-	-2.3	20	111	0
p/m Xylene	0.662	0.726	-	-9.7	20	123	0
o Xylene	0.672	0.701	-	-4.3	20	117	0
Styrene	1.131	1.16	-	-2.6	20	111	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	118	0
Bromoform	0.48	0.417	-	13.1	20	99	0
Isopropylbenzene	3.164	3.336	-	-5.4	20	127	0
4-Bromofluorobenzene	0.931	0.808	-	13.2	20	102	0
Bromobenzene	0.906	0.896	-	1.1	20	115	0
n-Propylbenzene	3.676	3.809	-	-3.6	20	124	0
1,1,2,2-Tetrachloroethane	0.754	0.574	-	23.9*	20	89	0
2-Chlorotoluene	2.402	2.285	-	4.9	20	112	0
1,3,5-Trimethylbenzene	2.818	2.87	-	-1.8	20	122	0
1,2,3-Trichloropropane	0.583	0.442	-	24.2*	20	89	0
4-Chlorotoluene	2.419	2.368	-	2.1	20	115	0
tert-Butylbenzene	2.348	2.51	-	-6.9	20	129	0
1,2,4-Trimethylbenzene	2.842	2.822	-	0.7	20	118	0
sec-Butylbenzene	3.386	3.668	-	-8.3	20	131	0
p-Isopropyltoluene	3.043	3.301	-	-8.5	20	130	0
1,3-Dichlorobenzene	1.69	1.756	-	-3.9	20	122	0
1,4-Dichlorobenzene	1.71	1.758	-	-2.8	20	121	0
n-Butylbenzene	2.586	2.779	-	-7.5	20	131	0
1,2-Dichlorobenzene	1.614	1.609	-	0.3	20	116	0
1,2-Dibromo-3-chloropropan	0.129	0.095	-	26.4*	20	85	0
Hexachlorobutadiene	0.659	0.758	-	-15	20	146	0
1,2,4-Trichlorobenzene	1.16	1.263	-	-8.9	20	127	0
Naphthalene	2.342	2.227	-	4.9	20	109	0
1,2,3-Trichlorobenzene	1.043	1.076	-	-3.2	20	120	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		Lab Number	: L2408101	
Project Name	: TUFTS STREET		Project Number	: 045163	
Instrument ID	: VOA123		Calibration Date	: 02/21/24 08:39	
Lab File ID	: V23240221A02		Init. Calib. Date(s)	: 02/07/24	02/08/24
Sample No	: WG1887734-2		Init. Calib. Times	: 20:15	00:33
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	105	0
Dichlorodifluoromethane	0.309	0.127	-	58.9*	20	47	0
Chloromethane	0.428	0.282	-	34.1*	20	71	0
Vinyl chloride	40	30.093	-	24.8*	20	89	0
Bromomethane	0.156	0.169	-	-8.3	20	121	0
Chloroethane	0.18	0.171	-	5	20	103	0
Trichlorofluoromethane	0.304	0.321	-	-5.6	20	120	0
Ethyl ether	0.14	0.127	-	9.3	20	96	0
1,1-Dichloroethene	0.224	0.242	-	-8	20	118	0
Carbon disulfide	0.855	0.821	-	4	20	108	0
Freon-113	0.244	0.242	-	0.8	20	120	0
Acrolein	0.044	0.033	-	25*	20	84	0
Methylene chloride	0.302	0.291	-	3.6	20	104	0
Acetone	40	30.718	-	23.2*	20	83	0
trans-1,2-Dichloroethene	0.272	0.293	-	-7.7	20	115	0
Methyl acetate	0.2	0.145	-	27.5*	20	78	0
Methyl tert-butyl ether	0.756	0.667	-	11.8	20	93	0
tert-Butyl alcohol	0.029	0.02	-	31*	20	76	0
Diisopropyl ether	1.212	1.045	-	13.8	20	89	0
1,1-Dichloroethane	0.556	0.543	-	2.3	20	102	0
Halothane	0.203	0.23	-	-13.3	20	122	0
Acrylonitrile	0.09	0.068	-	24.4*	20	82	0
Ethyl tert-butyl ether	1.027	0.919	-	10.5	20	93	0
Vinyl acetate	0.698	0.603	-	13.6	20	86	0
cis-1,2-Dichloroethene	0.318	0.325	-	-2.2	20	107	0
2,2-Dichloropropane	0.387	0.405	-	-4.7	20	113	0
Bromochloromethane	0.157	0.154	-	1.9	20	103	0
Cyclohexane	0.505	0.476	-	5.7	20	113	0
Chloroform	0.512	0.505	-	1.4	20	104	0
Ethyl acetate	0.297	0.221	-	25.6*	20	78	0
Carbon tetrachloride	40	39.44	-	1.4	20	122	0
Tetrahydrofuran	0.098	0.062	-	36.7*	20	75	0
Dibromofluoromethane	0.262	0.252	-	3.8	20	101	0
1,1,1-Trichloroethane	0.397	0.443	-	-11.6	20	119	0
2-Butanone	0.133	0.09	-	32.3*	20	74	0
1,1-Dichloropropene	40	41.608	-	-4	20	118	0
Benzene	1.072	1.105	-	-3.1	20	107	0
tert-Amyl methyl ether	0.792	0.706	-	10.9	20	93	0
1,2-Dichloroethane-d4	0.27	0.226	-	16.3	20	89	0
1,2-Dichloroethane	0.394	0.347	-	11.9	20	92	0
Methyl cyclohexane	0.456	0.44	-	3.5	20	120	0
Trichloroethene	0.28	0.302	-	-7.9	20	116	0
Dibromomethane	0.174	0.16	-	8	20	96	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Instrument ID	: VOA123	**Calibration Date**	: 02/21/24 08:39
Lab File ID	: V23240221A02	**Init. Calib. Date(s)**	: 02/07/24 02/08/24
Sample No	: WG1887734-2	**Init. Calib. Times**	: 20:15 00:33
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	40	36.624	-	8.4	20	98	0
Bromodichloromethane	0.397	0.382	-	3.8	20	101	0
1,4-Dioxane	0.00235	0.00213*	-	9.4	20	93	0
cis-1,3-Dichloropropene	0.451	0.438	-	2.9	20	97	0
Chlorobenzene-d5	1	1	-	0	20	109	0
Toluene-d8	1.396	1.265	-	9.4	20	99	0
Toluene	0.932	0.948	-	-1.7	20	113	0
4-Methyl-2-pentanone	0.138	0.101	-	26.8*	20	80	0
Tetrachloroethene	40	43.072	-	-7.7	20	136	0
trans-1,3-Dichloropropene	0.54	0.494	-	8.5	20	95	0
Ethyl methacrylate	0.412	0.338	-	18	20	88	0
1,1,2-Trichloroethane	0.275	0.247	-	10.2	20	97	0
Chlorodibromomethane	0.395	0.388	-	1.8	20	102	0
1,3-Dichloropropane	0.545	0.49	-	10.1	20	96	0
1,2-Dibromoethane	0.319	0.303	-	5	20	99	0
2-Hexanone	0.252	0.174	-	31*	20	73	0
Chlorobenzene	1.067	1.101	-	-3.2	20	111	0
Ethylbenzene	1.731	1.82	-	-5.1	20	117	0
1,1,1,2-Tetrachloroethane	0.398	0.414	-	-4	20	109	0
p/m Xylene	0.662	0.723	-	-9.2	20	118	0
o Xylene	0.672	0.701	-	-4.3	20	113	0
Styrene	1.131	1.144	-	-1.1	20	106	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	114	0
Bromoform	0.48	0.451	-	6	20	103	0
Isopropylbenzene	3.164	3.309	-	-4.6	20	122	0
4-Bromofluorobenzene	0.931	0.788	-	15.4	20	96	0
Bromobenzene	0.906	0.913	-	-0.8	20	113	0
n-Propylbenzene	3.676	3.856	-	-4.9	20	122	0
1,4-Dichlorobutane	1.133	0.895	-	21*	20	88	0
1,1,2,2-Tetrachloroethane	0.754	0.636	-	15.6	20	96	0
4-Ethyltoluene	3.23	3.405	-	-5.4	20	122	0
2-Chlorotoluene	2.402	2.275	-	5.3	20	108	0
1,3,5-Trimethylbenzene	2.818	2.899	-	-2.9	20	119	0
1,2,3-Trichloropropane	0.583	0.473	-	18.9	20	92	0
trans-1,4-Dichloro-2-buten	0.248	0.185	-	25.4*	20	84	0
4-Chlorotoluene	2.419	2.399	-	0.8	20	112	0
tert-Butylbenzene	2.348	2.504	-	-6.6	20	125	0
1,2,4-Trimethylbenzene	2.842	2.858	-	-0.6	20	115	0
sec-Butylbenzene	3.386	3.645	-	-7.6	20	126	0
p-Isopropyltoluene	3.043	3.318	-	-9	20	127	0
1,3-Dichlorobenzene	1.69	1.794	-	-6.2	20	121	0
1,4-Dichlorobenzene	1.71	1.787	-	-4.5	20	119	0
p-Diethylbenzene	1.89	2.073	-	-9.7	20	128	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Instrument ID	: VOA123	**Calibration Date**	: 02/21/24 08:39
Lab File ID	: V23240221A02	**Init. Calib. Date(s)**	: 02/07/24 02/08/24
Sample No	: WG1887734-2	**Init. Calib. Times**	: 20:15 00:33
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	2.586	2.799	-	-8.2	20	128	0
1,2-Dichlorobenzene	1.614	1.655	-	-2.5	20	115	0
1,2,4,5-Tetramethylbenzene	3.095	3.243	-	-4.8	20	118	0
1,2-Dibromo-3-chloropropan	0.129	0.11	-	14.7	20	96	0
1,3,5-Trichlorobenzene	1.334	1.538	-	-15.3	20	133	0
Hexachlorobutadiene	0.659	0.762	-	-15.6	20	142	0
1,2,4-Trichlorobenzene	1.16	1.318	-	-13.6	20	129	0
Naphthalene	2.342	2.244	-	4.2	20	106	0
1,2,3-Trichlorobenzene	1.043	1.121	-	-7.5	20	121	0

* Value outside of QC limits.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Stephan Landry
Atlas Technical Consultants LLC
10 State St
Suite 100
Woburn, Massachusetts 01801

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JOB DESCRIPTION

Tufts Street Improvement - Somerville, M

JOB NUMBER

620-17450-1

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

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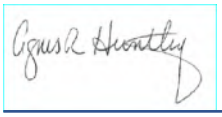

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Authorized for release by
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Definitions/Glossary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-17450-1

Project Location: Tufts Street Improvement - Somerville, M | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-17450-1 through 620-17450-18

Matrices: ☑ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☑	7470/7471 Hg CAM III B ☑	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☑	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☑	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes ☑ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 04/03/2024

Job Narrative
620-17450-1

REVISION
The report being provided is a revision of the original report sent on 3/28/2024. The report (revision 1) is being revised due to Report revised as client needed full list 8270 with low-level PAHs.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/18/2024 3:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C.

GC/MS VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270MCP: The following analytes have been identified, in the reference method and/or via historical data, to be poor and/or erratic performers: Benzidine and Benzoic acid. These analytes may have a %D >50%.

Method 8270MCP: The laboratory control sample (LCS) for preparation batch 620-32927 and analytical batch 620-32951 recovered outside control limits for the following analytes: 4-Chloroaniline, Aniline, Benzidine, Benzoic acid and Pyridine. The affected target analytes recovered within acceptance limits, >10%, per MCP criteria therefore, demonstrates the analytical system had sufficient sensitivity to detect the compounds had they been present. Since the affected target compounds were not detected in the samples, the data have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 6010MCP: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 620-33090 and analytical batch 620-33178 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010MCP: The sample duplicate (DUP) precision for preparation batch 620-33090 and analytical batch 620-33178 was outside control limits. Sample non-homogeneity is suspected.

Method 6010MCP: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 620-33090 and analytical batch 620-33178 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Job ID: 620-17450-1 (Continued) Eurofins New England

General Chemistry
Method 1010A: The Pensky Martens closed cup apparatus is designed to determine the flash point of a liquid sample. The sample submitted could not be mixed well enough to obtain uniform heating. The temperature being measured was that of the material near the top of the cup. The material at the bottom of the cup could have a higher temperature. The temperature reported may not be accurate.

Method Moisture: The sample duplicate (DUP) precision for analytical batch 620-32837 was outside control limits. Sample non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-3 (0-5) — Lab Sample ID: 620-17450-1

No Detections.

Client Sample ID: ATC-3 (5-10) — Lab Sample ID: 620-17450-2

No Detections.

Client Sample ID: ATC-2 (0-5) — Lab Sample ID: 620-17450-3

No Detections.

Client Sample ID: ATC-2 (5-10) — Lab Sample ID: 620-17450-4

No Detections.

Client Sample ID: ATC-1 (0-5) — Lab Sample ID: 620-17450-5

No Detections.

Client Sample ID: ATC-1 (5-10) — Lab Sample ID: 620-17450-6

No Detections.

Client Sample ID: Comp (0-5) — Lab Sample ID: 620-17450-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	28.7		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Anthracene	33.8		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Benzo[a]anthracene	148		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Benzo[a]pyrene	175		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Benzo[b]fluoranthene	179		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Benzo[g,h,i]perylene	136		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Benzo[k]fluoranthene	165		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Chrysene	156		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Dibenz(a,h)anthracene	41.0		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Fluoranthene	256		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Indeno[1,2,3-cd]pyrene	112		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Phenanthrene	102		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Pyrene	259		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Bis(2-ethylhexyl) phthalate	50.8		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
TEPH (C9-C36)	90.2		15.2		mg/Kg	1	☼	8100	Total/NA
Barium	45.9		2.10		mg/Kg	2	☼	6010D	Total/NA
Chromium	13.6	F1	2.10		mg/Kg	2	☼	6010D	Total/NA
Lead	21.0		3.15		mg/Kg	2	☼	6010D	Total/NA
Flashpoint	>184		50.0		Degrees F	1		1010A	Total/NA
Total Organic Carbon	4780	F1	300		mg/Kg	1		9060	Total/NA
pH	8.4				SU	1		9045D	Soluble
Temperature	23.4				Degrees C	1		9045D	Soluble
Specific Conductance	1200		10.0		uS/cm	1		SM 2510B	Soluble

Client Sample ID: Comp (5-10) — Lab Sample ID: 620-17450-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
TEPH (C9-C36)	16.7		14.9		mg/Kg	1	☼	8100	Total/NA
Arsenic	3.60		2.88		mg/Kg	2	☼	6010D	Total/NA
Barium	39.3		1.92		mg/Kg	2	☼	6010D	Total/NA
Chromium	17.4		1.92		mg/Kg	2	☼	6010D	Total/NA
Lead	5.34		2.88		mg/Kg	2	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Comp (5-10) (Continued)
Lab Sample ID: 620-17450-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>170		50.0		Degrees F	1		1010A	Total/NA
Total Organic Carbon	1620		300		mg/Kg	1		9060	Total/NA
pH	7.9				SU	1		9045D	Soluble
Temperature	23.4				Degrees C	1		9045D	Soluble
Specific Conductance	601		10.0		uS/cm	1		SM 2510B	Soluble

Client Sample ID: ATC-8 (0-5)
Lab Sample ID: 620-17450-9

No Detections.

Client Sample ID: ATC-8 (5-10)
Lab Sample ID: 620-17450-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	13.4		4.94		ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: ATC-7 (0-5)
Lab Sample ID: 620-17450-11

No Detections.

Client Sample ID: ATC-7 (5-10)
Lab Sample ID: 620-17450-12

No Detections.

Client Sample ID: ATC-6 (0-5)
Lab Sample ID: 620-17450-13

No Detections.

Client Sample ID: ATC-6 (5-10)
Lab Sample ID: 620-17450-14

No Detections.

Client Sample ID: ATC-4 (0-5)
Lab Sample ID: 620-17450-15

No Detections.

Client Sample ID: ATC-4 (5-10)
Lab Sample ID: 620-17450-16

No Detections.

Client Sample ID: ATC-5 (0-5)
Lab Sample ID: 620-17450-17

No Detections.

Client Sample ID: ATC-5 (5-10)
Lab Sample ID: 620-17450-18

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-3 (0-5)
Date Collected: 03/15/24 09:10
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-1
Matrix: Solid
Percent Solids: 88.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Acetone	ND		98.4		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Acrylonitrile	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Benzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Bromobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Bromochloromethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Bromodichloromethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Bromoform	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Bromomethane	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
2-Butanone (MEK)	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
n-Butylbenzene	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
sec-Butylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
tert-Butylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Carbon disulfide	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Carbon tetrachloride	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Chlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Chloroethane	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Chloroform	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Chloromethane	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
2-Chlorotoluene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
4-Chlorotoluene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2-Dibromo-3-Chloropropane	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Dibromochloromethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2-Dibromoethane (EDB)	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Dibromomethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2-Dichlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,3-Dichlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,4-Dichlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Dichlorodifluoromethane (Freon 12)	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1-Dichloroethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2-Dichloroethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1-Dichloroethene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
cis-1,2-Dichloroethene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
trans-1,2-Dichloroethene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2-Dichloropropane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,3-Dichloropropane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
2,2-Dichloropropane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1-Dichloropropene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
cis-1,3-Dichloropropene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
trans-1,3-Dichloropropene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Ethylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Hexachlorobutadiene	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
2-Hexanone (MBK)	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Isopropylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
4-Isopropyltoluene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Methyl tert-butyl ether	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
4-Methyl-2-pentanone (MIBK)	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Methylene Chloride	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Naphthalene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-3 (0-5)
Lab Sample ID: 620-17450-1
Date Collected: 03/15/24 09:10
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 88.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Styrene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1,1,2-Tetrachloroethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1,2,2-Tetrachloroethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Tetrachloroethene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Toluene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2,3-Trichlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2,4-Trichlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,3,5-Trichlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1,1-Trichloroethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1,2-Trichloroethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Trichloroethene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Trichlorofluoromethane (Freon 11)	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2,3-Trichloropropane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2,4-Trimethylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,3,5-Trimethylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Vinyl chloride	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
m,p-Xylene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
o-Xylene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Tetrahydrofuran	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Ethyl ether	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Tert-amyl methyl ether	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Ethyl tert-butyl ether	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
di-Isopropyl ether	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
tert-Butanol	ND		197		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,4-Dioxane	ND		197		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
trans-1,4-Dichloro-2-butene	ND		49.2		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Ethanol	ND		1970		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,3-Dichloropropene, Total	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Xylenes, Total	ND		29.5		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:08*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:08*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:08*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-3 (5-10)
Date Collected: 03/15/24 09:30
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-2
Matrix: Solid
Percent Solids: 87.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Acetone	ND		51.6		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Acrylonitrile	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Benzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Bromobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Bromochloromethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Bromodichloromethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Bromoform	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Bromomethane	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
2-Butanone (MEK)	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
n-Butylbenzene	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
sec-Butylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
tert-Butylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Carbon disulfide	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Carbon tetrachloride	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Chlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Chloroethane	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Chloroform	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Chloromethane	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
2-Chlorotoluene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
4-Chlorotoluene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2-Dibromo-3-Chloropropane	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Dibromochloromethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2-Dibromoethane (EDB)	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Dibromomethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2-Dichlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,3-Dichlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,4-Dichlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Dichlorodifluoromethane (Freon 12)	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1-Dichloroethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2-Dichloroethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1-Dichloroethene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
cis-1,2-Dichloroethene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
trans-1,2-Dichloroethene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2-Dichloropropane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,3-Dichloropropane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
2,2-Dichloropropane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1-Dichloropropene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
cis-1,3-Dichloropropene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
trans-1,3-Dichloropropene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Ethylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Hexachlorobutadiene	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
2-Hexanone (MBK)	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Isopropylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
4-Isopropyltoluene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Methyl tert-butyl ether	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
4-Methyl-2-pentanone (MIBK)	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Methylene Chloride	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Naphthalene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-3 (5-10)
Date Collected: 03/15/24 09:30
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-2
Matrix: Solid
Percent Solids: 87.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Styrene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1,1,2-Tetrachloroethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1,2,2-Tetrachloroethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Tetrachloroethene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Toluene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2,3-Trichlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2,4-Trichlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,3,5-Trichlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1,1-Trichloroethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1,2-Trichloroethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Trichloroethene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Trichlorofluoromethane (Freon 11)	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2,3-Trichloropropane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2,4-Trimethylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,3,5-Trimethylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Vinyl chloride	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
m,p-Xylene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
o-Xylene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Tetrahydrofuran	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Ethyl ether	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Tert-amyl methyl ether	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Ethyl tert-butyl ether	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
di-Isopropyl ether	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
tert-Butanol	ND		103		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,4-Dioxane	ND		103		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
trans-1,4-Dichloro-2-butene	ND		25.8		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Ethanol	ND		1030		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,3-Dichloropropene, Total	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Xylenes, Total	ND		15.5		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:33*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:33*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:33*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-2 (0-5)
Date Collected: 03/15/24 10:15
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-3
Matrix: Solid
Percent Solids: 90.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Acetone	ND		54.6		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Acrylonitrile	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Benzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Bromobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Bromochloromethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Bromodichloromethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Bromoform	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Bromomethane	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
2-Butanone (MEK)	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
n-Butylbenzene	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
sec-Butylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
tert-Butylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Carbon disulfide	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Carbon tetrachloride	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Chlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Chloroethane	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Chloroform	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Chloromethane	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
2-Chlorotoluene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
4-Chlorotoluene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2-Dibromo-3-Chloropropane	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Dibromochloromethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2-Dibromoethane (EDB)	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Dibromomethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2-Dichlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,3-Dichlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,4-Dichlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Dichlorodifluoromethane (Freon 12)	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1-Dichloroethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2-Dichloroethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1-Dichloroethene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
cis-1,2-Dichloroethene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
trans-1,2-Dichloroethene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2-Dichloropropane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,3-Dichloropropane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
2,2-Dichloropropane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1-Dichloropropene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
cis-1,3-Dichloropropene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
trans-1,3-Dichloropropene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Ethylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Hexachlorobutadiene	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
2-Hexanone (MBK)	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Isopropylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
4-Isopropyltoluene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Methyl tert-butyl ether	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
4-Methyl-2-pentanone (MIBK)	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Methylene Chloride	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Naphthalene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-2 (0-5)
Date Collected: 03/15/24 10:15
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-3
Matrix: Solid
Percent Solids: 90.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Styrene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1,1,2-Tetrachloroethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1,2,2-Tetrachloroethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Tetrachloroethene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Toluene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2,3-Trichlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2,4-Trichlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,3,5-Trichlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1,1-Trichloroethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1,2-Trichloroethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Trichloroethene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Trichlorofluoromethane (Freon 11)	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2,3-Trichloropropane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2,4-Trimethylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,3,5-Trimethylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Vinyl chloride	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
m,p-Xylene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
o-Xylene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Tetrahydrofuran	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Ethyl ether	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Tert-amyl methyl ether	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Ethyl tert-butyl ether	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
di-Isopropyl ether	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
tert-Butanol	ND		109		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,4-Dioxane	ND		109		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
trans-1,4-Dichloro-2-butene	ND		27.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Ethanol	ND		1090		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,3-Dichloropropene, Total	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Xylenes, Total	ND		16.4		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:58*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:58*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:58*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-2 (5-10)
Date Collected: 03/15/24 11:00
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-4
Matrix: Solid
Percent Solids: 77.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Acetone	ND		64.1		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Acrylonitrile	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Benzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Bromobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Bromochloromethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Bromodichloromethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Bromoform	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Bromomethane	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
2-Butanone (MEK)	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
n-Butylbenzene	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
sec-Butylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
tert-Butylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Carbon disulfide	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Carbon tetrachloride	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Chlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Chloroethane	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Chloroform	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Chloromethane	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
2-Chlorotoluene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
4-Chlorotoluene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2-Dibromo-3-Chloropropane	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Dibromochloromethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2-Dibromoethane (EDB)	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Dibromomethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2-Dichlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,3-Dichlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,4-Dichlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Dichlorodifluoromethane (Freon 12)	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1-Dichloroethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2-Dichloroethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1-Dichloroethene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
cis-1,2-Dichloroethene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
trans-1,2-Dichloroethene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2-Dichloropropane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,3-Dichloropropane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
2,2-Dichloropropane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1-Dichloropropene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
cis-1,3-Dichloropropene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
trans-1,3-Dichloropropene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Ethylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Hexachlorobutadiene	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
2-Hexanone (MBK)	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Isopropylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
4-Isopropyltoluene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Methyl tert-butyl ether	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
4-Methyl-2-pentanone (MIBK)	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Methylene Chloride	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Naphthalene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-2 (5-10)
Date Collected: 03/15/24 11:00
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-4
Matrix: Solid
Percent Solids: 77.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Styrene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1,1,2-Tetrachloroethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1,2,2-Tetrachloroethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Tetrachloroethene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Toluene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2,3-Trichlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2,4-Trichlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,3,5-Trichlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1,1-Trichloroethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1,2-Trichloroethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Trichloroethene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Trichlorofluoromethane (Freon 11)	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2,3-Trichloropropane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2,4-Trimethylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,3,5-Trimethylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Vinyl chloride	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
m,p-Xylene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
o-Xylene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Tetrahydrofuran	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Ethyl ether	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Tert-amyl methyl ether	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Ethyl tert-butyl ether	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
di-Isopropyl ether	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
tert-Butanol	ND		128		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,4-Dioxane	ND		128		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
trans-1,4-Dichloro-2-butene	ND		32.1		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Ethanol	ND		1280		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,3-Dichloropropene, Total	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Xylenes, Total	ND		19.2		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:23*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:23*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:23*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-1 (0-5)
Date Collected: 03/15/24 11:20
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-5
Matrix: Solid
Percent Solids: 88.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Acetone	ND		46.9		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Acrylonitrile	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Benzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Bromobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Bromochloromethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Bromodichloromethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Bromoform	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Bromomethane	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
2-Butanone (MEK)	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
n-Butylbenzene	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
sec-Butylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
tert-Butylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Carbon disulfide	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Carbon tetrachloride	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Chlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Chloroethane	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Chloroform	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Chloromethane	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
2-Chlorotoluene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
4-Chlorotoluene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2-Dibromo-3-Chloropropane	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Dibromochloromethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2-Dibromoethane (EDB)	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Dibromomethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2-Dichlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,3-Dichlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,4-Dichlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Dichlorodifluoromethane (Freon 12)	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1-Dichloroethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2-Dichloroethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1-Dichloroethene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
cis-1,2-Dichloroethene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
trans-1,2-Dichloroethene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2-Dichloropropane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,3-Dichloropropane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
2,2-Dichloropropane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1-Dichloropropene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
cis-1,3-Dichloropropene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
trans-1,3-Dichloropropene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Ethylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Hexachlorobutadiene	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
2-Hexanone (MBK)	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Isopropylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
4-Isopropyltoluene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Methyl tert-butyl ether	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
4-Methyl-2-pentanone (MIBK)	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Methylene Chloride	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Naphthalene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-1 (0-5)
Lab Sample ID: 620-17450-5
Date Collected: 03/15/24 11:20
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 88.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Styrene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1,1,2-Tetrachloroethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1,2,2-Tetrachloroethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Tetrachloroethene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Toluene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2,3-Trichlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2,4-Trichlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,3,5-Trichlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1,1-Trichloroethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1,2-Trichloroethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Trichloroethene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Trichlorofluoromethane (Freon 11)	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2,3-Trichloropropane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2,4-Trimethylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,3,5-Trimethylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Vinyl chloride	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
m,p-Xylene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
o-Xylene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Tetrahydrofuran	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Ethyl ether	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Tert-amyl methyl ether	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Ethyl tert-butyl ether	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
di-Isopropyl ether	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
tert-Butanol	ND		93.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,4-Dioxane	ND		93.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
trans-1,4-Dichloro-2-butene	ND		23.5		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Ethanol	ND		938		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,3-Dichloropropene, Total	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Xylenes, Total	ND		14.1		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:49*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:49*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:49*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-1 (5-10)
Date Collected: 03/15/24 11:30
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-6
Matrix: Solid
Percent Solids: 91.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Acetone	ND		53.2		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Acrylonitrile	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Benzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Bromobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Bromochloromethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Bromodichloromethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Bromoform	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Bromomethane	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
2-Butanone (MEK)	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
n-Butylbenzene	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
sec-Butylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
tert-Butylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Carbon disulfide	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Carbon tetrachloride	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Chlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Chloroethane	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Chloroform	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Chloromethane	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
2-Chlorotoluene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
4-Chlorotoluene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2-Dibromo-3-Chloropropane	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Dibromochloromethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2-Dibromoethane (EDB)	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Dibromomethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2-Dichlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,3-Dichlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,4-Dichlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Dichlorodifluoromethane (Freon 12)	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1-Dichloroethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2-Dichloroethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1-Dichloroethene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
cis-1,2-Dichloroethene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
trans-1,2-Dichloroethene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2-Dichloropropane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,3-Dichloropropane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
2,2-Dichloropropane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1-Dichloropropene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
cis-1,3-Dichloropropene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
trans-1,3-Dichloropropene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Ethylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Hexachlorobutadiene	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
2-Hexanone (MBK)	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Isopropylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
4-Isopropyltoluene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Methyl tert-butyl ether	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
4-Methyl-2-pentanone (MIBK)	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Methylene Chloride	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Naphthalene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-1 (5-10)
Date Collected: 03/15/24 11:30
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-6
Matrix: Solid
Percent Solids: 91.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Styrene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1,1,2-Tetrachloroethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1,2,2-Tetrachloroethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Tetrachloroethene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Toluene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2,3-Trichlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2,4-Trichlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,3,5-Trichlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1,1-Trichloroethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1,2-Trichloroethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Trichloroethene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Trichlorofluoromethane (Freon 11)	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2,3-Trichloropropane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2,4-Trimethylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,3,5-Trimethylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Vinyl chloride	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
m,p-Xylene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
o-Xylene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Tetrahydrofuran	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Ethyl ether	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Tert-amyl methyl ether	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Ethyl tert-butyl ether	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
di-Isopropyl ether	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
tert-Butanol	ND		106		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,4-Dioxane	ND		106		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
trans-1,4-Dichloro-2-butene	ND		26.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Ethanol	ND		1060		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,3-Dichloropropene, Total	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Xylenes, Total	ND		16.0		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:14*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:14*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:14*	*1*

Client Sample ID: Comp (0-5)
Date Collected: 03/15/24 12:00
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-7
Matrix: Solid
Percent Solids: 87.7

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Acenaphthylene	**28.7**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
1-Methylnaphthalene	ND		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Anthracene	**33.8**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzo[a]anthracene	**148**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzo[a]pyrene	**175**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzo[b]fluoranthene	**179**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzo[g,h,i]perylene	**136**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzo[k]fluoranthene	**165**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Chrysene	**156**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Dibenz(a,h)anthracene	**41.0**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Fluoranthene	**256**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Fluorene	ND		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Indeno[1,2,3-cd]pyrene	**112**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2-Methylnaphthalene	ND		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Naphthalene	ND		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Phenanthrene	**102**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Pyrene	**259**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Bis(2-ethylhexyl) phthalate	**50.8**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*43*		*30 - 130*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
Terphenyl-d14 (Surr)	*76*		*30 - 130*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
2-Fluorobiphenyl (Surr)	*51*		*30 - 130*	*03/21/24 08:36*	*03/21/24 15:49*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
1,2,4-Trichlorobenzene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
1,2-Dichlorobenzene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
1,3-Dichlorobenzene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
1,4-Dichlorobenzene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,4,5-Trichlorophenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,4,6-Trichlorophenol	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,4-Dichlorophenol	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,4-Dimethylphenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,4-Dinitrophenol	ND		733		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,4-Dinitrotoluene	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,6-Dinitrotoluene	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2-Chloronaphthalene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2-Chlorophenol	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2-Methylphenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2-Nitroaniline	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2-Nitrophenol	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
3 & 4 Methylphenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
3,3'-Dichlorobenzidine	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
3-Nitroaniline	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
4,6-Dinitro-2-methylphenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
4-Bromophenyl phenyl ether	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
4-Chloro-3-methylphenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1

Client Sample ID: Comp (0-5)
Lab Sample ID: 620-17450-7
Date Collected: 03/15/24 12:00
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 87.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND	*-	185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
4-Chlorophenyl phenyl ether	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
4-Nitroaniline	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
4-Nitrophenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Acetophenone	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Aniline	ND	*-	366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Azobenzene/Diphenyldiazene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzidine	ND	*-	733		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzoic acid	ND	*-	740		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzyl alcohol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Bis(2-chloroethoxy)methane	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Bis(2-chloroethyl)ether	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
bis (2-chloroisopropyl) ether	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Bis(2-ethylhexyl) phthalate	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Butyl benzyl phthalate	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Carbazole	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Dibenzofuran	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Diethyl phthalate	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Dimethyl phthalate	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Di-n-butyl phthalate	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Di-n-octyl phthalate	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Hexachlorobenzene	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Hexachlorobutadiene	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Hexachlorocyclopentadiene	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Hexachloroethane	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Isophorone	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Nitrobenzene	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
N-Nitrosodimethylamine	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
N-Nitrosodi-n-propylamine	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
N-Nitrosodiphenylamine	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Pentachloronitrobenzene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Pentachlorophenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Phenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Pyridine	ND	*-	366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*50*		*30 - 130*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
2-Fluorophenol (Surr)	*50*		*15 - 110*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
Nitrobenzene-d5 (Surr)	*39*		*30 - 130*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
Phenol-d5 (Surr)	*54*		*15 - 110*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*15 - 110*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
Terphenyl-d14 (Surr)	*76*		*30 - 130*	*03/21/24 08:36*	*03/21/24 15:49*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1221	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1232	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1242	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1248	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1

Client Sample ID: Comp (0-5)
Lab Sample ID: 620-17450-7

Date Collected: 03/15/24 12:00
Matrix: Solid

Date Received: 03/18/24 15:25
Percent Solids: 87.7

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1262	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1260	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1268	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*30 - 150*	*03/19/24 14:48*	*03/21/24 23:56*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*30 - 150*	*03/19/24 14:48*	*03/21/24 23:56*	*1*

Method: SW846 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TEPH (C9-C36)	**90.2**		15.2		mg/Kg	☼	03/19/24 17:07	03/21/24 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*100*		*40 - 140*	*03/19/24 17:07*	*03/21/24 15:35*	*1*
o-Terphenyl (Surr)	*72*		*40 - 140*	*03/19/24 17:07*	*03/21/24 15:35*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	F1	3.15		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2
Barium	**45.9**		2.10		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2
Cadmium	ND		1.05		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2
Chromium	**13.6**	**F1**	2.10		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2
Lead	**21.0**		3.15		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2
Selenium	ND	F1	3.15		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2
Silver	ND	F1	3.15		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0150		mg/L		03/26/24 15:40	03/27/24 13:47	1

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0530		mg/Kg	☼	03/19/24 11:28	03/19/24 15:44	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010A)	**>184**		50.0		Degrees F			03/21/24 10:01	1
Cyanide, Reactive (SW846 9012)	ND		57.7		mg/Kg		03/25/24 08:25	03/25/24 17:06	1
Sulfide, Reactive (SW846 9034)	ND		154		mg/Kg		03/25/24 08:25	03/25/24 12:45	1
Total Organic Carbon (SW846 9060)	**4780**	**F1**	300		mg/Kg			03/21/24 13:08	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**8.4**				SU			03/28/24 11:32	1
Temperature (SW846 9045D)	**23.4**				Degrees C			03/28/24 11:32	1
Specific Conductance (SM 2510B)	**1200**		10.0		uS/cm			03/28/24 11:04	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: Comp (5-10)

Date Collected: 03/15/24 12:15
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-8

Matrix: Solid
Percent Solids: 87.4

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Acenaphthylene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
1-Methylnaphthalene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Anthracene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzo[a]anthracene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzo[a]pyrene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzo[b]fluoranthene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzo[g,h,i]perylene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzo[k]fluoranthene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Chrysene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Dibenz(a,h)anthracene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Fluoranthene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Fluorene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Indeno[1,2,3-cd]pyrene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2-Methylnaphthalene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Naphthalene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Phenanthrene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Pyrene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Bis(2-ethylhexyl) phthalate	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*46*		*30 - 130*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
Terphenyl-d14 (Surr)	*65*		*30 - 130*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
2-Fluorobiphenyl (Surr)	*41*		*30 - 130*	*03/21/24 08:36*	*03/21/24 16:14*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
1,2,4-Trichlorobenzene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
1,2-Dichlorobenzene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
1,3-Dichlorobenzene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
1,4-Dichlorobenzene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,4,5-Trichlorophenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,4,6-Trichlorophenol	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,4-Dichlorophenol	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,4-Dimethylphenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,4-Dinitrophenol	ND		737		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,4-Dinitrotoluene	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,6-Dinitrotoluene	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2-Chloronaphthalene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2-Chlorophenol	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2-Methylphenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2-Nitroaniline	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2-Nitrophenol	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
3 & 4 Methylphenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
3,3'-Dichlorobenzidine	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
3-Nitroaniline	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
4,6-Dinitro-2-methylphenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
4-Bromophenyl phenyl ether	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
4-Chloro-3-methylphenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: Comp (5-10)
Date Collected: 03/15/24 12:15
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-8
Matrix: Solid
Percent Solids: 87.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND	*-	186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
4-Chlorophenyl phenyl ether	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
4-Nitroaniline	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
4-Nitrophenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Acetophenone	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Aniline	ND	*-	368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Azobenzene/Diphenyldiazene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzidine	ND	*-	737		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzoic acid	ND	*-	744		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzyl alcohol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Bis(2-chloroethoxy)methane	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Bis(2-chloroethyl)ether	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
bis (2-chloroisopropyl) ether	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Bis(2-ethylhexyl) phthalate	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Butyl benzyl phthalate	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Carbazole	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Dibenzofuran	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Diethyl phthalate	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Dimethyl phthalate	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Di-n-butyl phthalate	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Di-n-octyl phthalate	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Hexachlorobenzene	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Hexachlorobutadiene	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Hexachlorocyclopentadiene	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Hexachloroethane	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Isophorone	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Nitrobenzene	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
N-Nitrosodimethylamine	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
N-Nitrosodi-n-propylamine	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
N-Nitrosodiphenylamine	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Pentachloronitrobenzene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Pentachlorophenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Phenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Pyridine	ND	*-	368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*41*		*30 - 130*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
2-Fluorophenol (Surr)	*45*		*15 - 110*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
Nitrobenzene-d5 (Surr)	*42*		*30 - 130*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
Phenol-d5 (Surr)	*45*		*15 - 110*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
2,4,6-Tribromophenol (Surr)	*48*		*15 - 110*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
Terphenyl-d14 (Surr)	*65*		*30 - 130*	*03/21/24 08:36*	*03/21/24 16:14*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1221	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1232	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1242	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1248	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1

Client Sample ID: Comp (5-10)
Lab Sample ID: 620-17450-8

Date Collected: 03/15/24 12:15
Matrix: Solid

Date Received: 03/18/24 15:25
Percent Solids: 87.4

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1262	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1260	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1268	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*30 - 150*	*03/19/24 14:48*	*03/22/24 00:14*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*30 - 150*	*03/19/24 14:48*	*03/22/24 00:14*	*1*

Method: SW846 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TEPH (C9-C36)	**16.7**		14.9		mg/Kg	☼	03/19/24 17:07	03/21/24 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*84*		*40 - 140*	*03/19/24 17:07*	*03/21/24 15:57*	*1*
o-Terphenyl (Surr)	*73*		*40 - 140*	*03/19/24 17:07*	*03/21/24 15:57*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.60**		2.88		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2
Barium	**39.3**		1.92		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2
Cadmium	ND		0.961		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2
Chromium	**17.4**		1.92		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2
Lead	**5.34**		2.88		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2
Selenium	ND		2.88		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2
Silver	ND		2.88		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0150		mg/L		03/26/24 15:40	03/27/24 13:23	1

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0512		mg/Kg	☼	03/19/24 11:28	03/19/24 15:46	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010A)	**>170**		50.0		Degrees F			03/21/24 10:01	1
Cyanide, Reactive (SW846 9012)	ND		59.9		mg/Kg		03/25/24 08:25	03/25/24 17:07	1
Sulfide, Reactive (SW846 9034)	ND		160		mg/Kg		03/25/24 08:25	03/25/24 12:45	1
Total Organic Carbon (SW846 9060)	**1620**		300		mg/Kg			03/21/24 13:29	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**7.9**				SU			03/28/24 11:32	1
Temperature (SW846 9045D)	**23.4**				Degrees C			03/28/24 11:32	1
Specific Conductance (SM 2510B)	**601**		10.0		uS/cm			03/28/24 11:04	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-8 (0-5)
Date Collected: 03/14/24 10:00
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-9
Matrix: Solid
Percent Solids: 88.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Acetone	ND		61.9		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Acrylonitrile	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Benzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Bromobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Bromochloromethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Bromodichloromethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Bromoform	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Bromomethane	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
2-Butanone (MEK)	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
n-Butylbenzene	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
sec-Butylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
tert-Butylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Carbon disulfide	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Carbon tetrachloride	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Chlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Chloroethane	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Chloroform	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Chloromethane	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
2-Chlorotoluene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
4-Chlorotoluene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2-Dibromo-3-Chloropropane	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Dibromochloromethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2-Dibromoethane (EDB)	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Dibromomethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2-Dichlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,3-Dichlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,4-Dichlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Dichlorodifluoromethane (Freon 12)	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1-Dichloroethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2-Dichloroethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1-Dichloroethene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
cis-1,2-Dichloroethene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
trans-1,2-Dichloroethene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2-Dichloropropane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,3-Dichloropropane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
2,2-Dichloropropane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1-Dichloropropene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
cis-1,3-Dichloropropene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
trans-1,3-Dichloropropene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Ethylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Hexachlorobutadiene	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
2-Hexanone (MBK)	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Isopropylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
4-Isopropyltoluene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Methyl tert-butyl ether	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
4-Methyl-2-pentanone (MIBK)	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Methylene Chloride	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Naphthalene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-8 (0-5)
Date Collected: 03/14/24 10:00
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-9
Matrix: Solid
Percent Solids: 88.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Styrene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1,1,2-Tetrachloroethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1,2,2-Tetrachloroethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Tetrachloroethene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Toluene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2,3-Trichlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2,4-Trichlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,3,5-Trichlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1,1-Trichloroethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1,2-Trichloroethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Trichloroethene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Trichlorofluoromethane (Freon 11)	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2,3-Trichloropropane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2,4-Trimethylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,3,5-Trimethylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Vinyl chloride	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
m,p-Xylene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
o-Xylene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Tetrahydrofuran	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Ethyl ether	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Tert-amyl methyl ether	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Ethyl tert-butyl ether	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
di-Isopropyl ether	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
tert-Butanol	ND		124		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,4-Dioxane	ND		124		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
trans-1,4-Dichloro-2-butene	ND		31.0		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Ethanol	ND		1240		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,3-Dichloropropene, Total	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Xylenes, Total	ND		18.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:40*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:40*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:40*	*1*

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-8 (5-10)
Lab Sample ID: 620-17450-10
Date Collected: 03/14/24 11:50
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 77.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Acetone	ND		49.4		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Acrylonitrile	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Benzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Bromobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Bromochloromethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Bromodichloromethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Bromoform	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Bromomethane	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
2-Butanone (MEK)	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
n-Butylbenzene	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
sec-Butylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
tert-Butylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Carbon disulfide	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Carbon tetrachloride	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Chlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Chloroethane	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Chloroform	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Chloromethane	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
2-Chlorotoluene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
4-Chlorotoluene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2-Dibromo-3-Chloropropane	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Dibromochloromethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2-Dibromoethane (EDB)	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Dibromomethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2-Dichlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,3-Dichlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,4-Dichlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Dichlorodifluoromethane (Freon 12)	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1-Dichloroethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2-Dichloroethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1-Dichloroethene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
cis-1,2-Dichloroethene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
trans-1,2-Dichloroethene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2-Dichloropropane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,3-Dichloropropane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
2,2-Dichloropropane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1-Dichloropropene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
cis-1,3-Dichloropropene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
trans-1,3-Dichloropropene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Ethylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Hexachlorobutadiene	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
2-Hexanone (MBK)	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Isopropylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
4-Isopropyltoluene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Methyl tert-butyl ether	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
4-Methyl-2-pentanone (MIBK)	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Methylene Chloride	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Naphthalene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-8 (5-10)
Lab Sample ID: 620-17450-10
Date Collected: 03/14/24 11:50
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 77.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Styrene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1,1,2-Tetrachloroethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1,2,2-Tetrachloroethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Tetrachloroethene	**13.4**		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Toluene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2,3-Trichlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2,4-Trichlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,3,5-Trichlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1,1-Trichloroethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1,2-Trichloroethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Trichloroethene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Trichlorofluoromethane (Freon 11)	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2,3-Trichloropropane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2,4-Trimethylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,3,5-Trimethylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Vinyl chloride	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
m,p-Xylene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
o-Xylene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Tetrahydrofuran	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Ethyl ether	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Tert-amyl methyl ether	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Ethyl tert-butyl ether	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
di-Isopropyl ether	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
tert-Butanol	ND		98.8		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,4-Dioxane	ND		98.8		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
trans-1,4-Dichloro-2-butene	ND		24.7		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Ethanol	ND		988		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,3-Dichloropropene, Total	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Xylenes, Total	ND		14.8		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:06*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:06*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:06*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-7 (0-5)
Date Collected: 03/14/24 11:10
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-11
Matrix: Solid
Percent Solids: 91.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Acetone	ND		46.7		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Acrylonitrile	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Benzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Bromobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Bromochloromethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Bromodichloromethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Bromoform	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Bromomethane	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
2-Butanone (MEK)	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
n-Butylbenzene	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
sec-Butylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
tert-Butylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Carbon disulfide	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Carbon tetrachloride	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Chlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Chloroethane	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Chloroform	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Chloromethane	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
2-Chlorotoluene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
4-Chlorotoluene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2-Dibromo-3-Chloropropane	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Dibromochloromethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2-Dibromoethane (EDB)	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Dibromomethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2-Dichlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,3-Dichlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,4-Dichlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Dichlorodifluoromethane (Freon 12)	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1-Dichloroethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2-Dichloroethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1-Dichloroethene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
cis-1,2-Dichloroethene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
trans-1,2-Dichloroethene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2-Dichloropropane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,3-Dichloropropane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
2,2-Dichloropropane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1-Dichloropropene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
cis-1,3-Dichloropropene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
trans-1,3-Dichloropropene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Ethylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Hexachlorobutadiene	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
2-Hexanone (MBK)	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Isopropylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
4-Isopropyltoluene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Methyl tert-butyl ether	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
4-Methyl-2-pentanone (MIBK)	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Methylene Chloride	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Naphthalene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-7 (0-5)
Date Collected: 03/14/24 11:10
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-11
Matrix: Solid
Percent Solids: 91.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Styrene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1,1,2-Tetrachloroethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1,2,2-Tetrachloroethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Tetrachloroethene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Toluene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2,3-Trichlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2,4-Trichlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,3,5-Trichlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1,1-Trichloroethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1,2-Trichloroethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Trichloroethene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Trichlorofluoromethane (Freon 11)	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2,3-Trichloropropane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2,4-Trimethylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,3,5-Trimethylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Vinyl chloride	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
m,p-Xylene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
o-Xylene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Tetrahydrofuran	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Ethyl ether	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Tert-amyl methyl ether	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Ethyl tert-butyl ether	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
di-Isopropyl ether	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
tert-Butanol	ND		93.4		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,4-Dioxane	ND		93.4		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
trans-1,4-Dichloro-2-butene	ND		23.4		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Ethanol	ND		934		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,3-Dichloropropene, Total	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Xylenes, Total	ND		14.0		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:31*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:31*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:31*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-7 (5-10)
Date Collected: 03/14/24 12:10
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-12
Matrix: Solid
Percent Solids: 78.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Acetone	ND		126		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Acrylonitrile	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Benzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Bromobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Bromochloromethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Bromodichloromethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Bromoform	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Bromomethane	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
2-Butanone (MEK)	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
n-Butylbenzene	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
sec-Butylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
tert-Butylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Carbon disulfide	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Carbon tetrachloride	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Chlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Chloroethane	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Chloroform	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Chloromethane	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
2-Chlorotoluene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
4-Chlorotoluene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2-Dibromo-3-Chloropropane	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Dibromochloromethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2-Dibromoethane (EDB)	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Dibromomethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2-Dichlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,3-Dichlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,4-Dichlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Dichlorodifluoromethane (Freon 12)	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1-Dichloroethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2-Dichloroethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1-Dichloroethene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
cis-1,2-Dichloroethene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
trans-1,2-Dichloroethene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2-Dichloropropane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,3-Dichloropropane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
2,2-Dichloropropane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1-Dichloropropene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
cis-1,3-Dichloropropene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
trans-1,3-Dichloropropene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Ethylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Hexachlorobutadiene	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
2-Hexanone (MBK)	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Isopropylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
4-Isopropyltoluene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Methyl tert-butyl ether	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
4-Methyl-2-pentanone (MIBK)	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Methylene Chloride	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Naphthalene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-7 (5-10)
Lab Sample ID: 620-17450-12
Date Collected: 03/14/24 12:10
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 78.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Styrene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1,1,2-Tetrachloroethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1,2,2-Tetrachloroethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Tetrachloroethene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Toluene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2,3-Trichlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2,4-Trichlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,3,5-Trichlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1,1-Trichloroethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1,2-Trichloroethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Trichloroethene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Trichlorofluoromethane (Freon 11)	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2,3-Trichloropropane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2,4-Trimethylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,3,5-Trimethylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Vinyl chloride	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
m,p-Xylene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
o-Xylene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Tetrahydrofuran	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Ethyl ether	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Tert-amyl methyl ether	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Ethyl tert-butyl ether	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
di-Isopropyl ether	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
tert-Butanol	ND		253		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,4-Dioxane	ND		253		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
trans-1,4-Dichloro-2-butene	ND		63.2		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Ethanol	ND		2530		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,3-Dichloropropene, Total	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Xylenes, Total	ND		37.9		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:57*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:57*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:57*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-6 (0-5)
Date Collected: 03/14/24 12:30
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-13
Matrix: Solid
Percent Solids: 89.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Acetone	ND		52.1		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Acrylonitrile	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Benzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Bromobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Bromochloromethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Bromodichloromethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Bromoform	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Bromomethane	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
2-Butanone (MEK)	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
n-Butylbenzene	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
sec-Butylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
tert-Butylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Carbon disulfide	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Carbon tetrachloride	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Chlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Chloroethane	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Chloroform	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Chloromethane	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
2-Chlorotoluene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
4-Chlorotoluene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2-Dibromo-3-Chloropropane	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Dibromochloromethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2-Dibromoethane (EDB)	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Dibromomethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2-Dichlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,3-Dichlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,4-Dichlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Dichlorodifluoromethane (Freon 12)	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1-Dichloroethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2-Dichloroethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1-Dichloroethene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
cis-1,2-Dichloroethene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
trans-1,2-Dichloroethene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2-Dichloropropane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,3-Dichloropropane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
2,2-Dichloropropane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1-Dichloropropene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
cis-1,3-Dichloropropene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
trans-1,3-Dichloropropene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Ethylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Hexachlorobutadiene	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
2-Hexanone (MBK)	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Isopropylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
4-Isopropyltoluene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Methyl tert-butyl ether	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
4-Methyl-2-pentanone (MIBK)	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Methylene Chloride	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Naphthalene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-6 (0-5)
Date Collected: 03/14/24 12:30
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-13
Matrix: Solid
Percent Solids: 89.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Styrene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1,1,2-Tetrachloroethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1,2,2-Tetrachloroethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Tetrachloroethene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Toluene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2,3-Trichlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2,4-Trichlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,3,5-Trichlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1,1-Trichloroethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1,2-Trichloroethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Trichloroethene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Trichlorofluoromethane (Freon 11)	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2,3-Trichloropropane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2,4-Trimethylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,3,5-Trimethylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Vinyl chloride	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
m,p-Xylene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
o-Xylene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Tetrahydrofuran	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Ethyl ether	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Tert-amyl methyl ether	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Ethyl tert-butyl ether	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
di-Isopropyl ether	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
tert-Butanol	ND		104		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,4-Dioxane	ND		104		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
trans-1,4-Dichloro-2-butene	ND		26.1		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Ethanol	ND		1040		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,3-Dichloropropene, Total	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Xylenes, Total	ND		15.6		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:24*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:24*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:24*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-6 (5-10)
Date Collected: 03/14/24 12:45
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-14
Matrix: Solid
Percent Solids: 92.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Acetone	ND		57.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Acrylonitrile	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Benzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Bromobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Bromochloromethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Bromodichloromethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Bromoform	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Bromomethane	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
2-Butanone (MEK)	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
n-Butylbenzene	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
sec-Butylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
tert-Butylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Carbon disulfide	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Carbon tetrachloride	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Chlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Chloroethane	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Chloroform	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Chloromethane	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
2-Chlorotoluene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
4-Chlorotoluene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2-Dibromo-3-Chloropropane	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Dibromochloromethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2-Dibromoethane (EDB)	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Dibromomethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2-Dichlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,3-Dichlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,4-Dichlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Dichlorodifluoromethane (Freon 12)	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1-Dichloroethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2-Dichloroethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1-Dichloroethene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
cis-1,2-Dichloroethene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
trans-1,2-Dichloroethene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2-Dichloropropane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,3-Dichloropropane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
2,2-Dichloropropane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1-Dichloropropene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
cis-1,3-Dichloropropene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
trans-1,3-Dichloropropene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Ethylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Hexachlorobutadiene	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
2-Hexanone (MBK)	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Isopropylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
4-Isopropyltoluene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Methyl tert-butyl ether	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
4-Methyl-2-pentanone (MIBK)	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Methylene Chloride	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Naphthalene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-6 (5-10)
Lab Sample ID: 620-17450-14
Date Collected: 03/14/24 12:45
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 92.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Styrene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1,1,2-Tetrachloroethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1,2,2-Tetrachloroethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Tetrachloroethene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Toluene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2,3-Trichlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2,4-Trichlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,3,5-Trichlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1,1-Trichloroethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1,2-Trichloroethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Trichloroethene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Trichlorofluoromethane (Freon 11)	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2,3-Trichloropropane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2,4-Trimethylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,3,5-Trimethylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Vinyl chloride	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
m,p-Xylene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
o-Xylene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Tetrahydrofuran	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Ethyl ether	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Tert-amyl methyl ether	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Ethyl tert-butyl ether	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
di-Isopropyl ether	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
tert-Butanol	ND		115		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,4-Dioxane	ND		115		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
trans-1,4-Dichloro-2-butene	ND		28.8		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Ethanol	ND		1150		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,3-Dichloropropene, Total	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Xylenes, Total	ND		17.3		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:50*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:50*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:50*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-4 (0-5)
Date Collected: 03/14/24 13:40
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-15
Matrix: Solid
Percent Solids: 89.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Acetone	ND		50.4		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Acrylonitrile	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Benzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Bromobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Bromochloromethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Bromodichloromethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Bromoform	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Bromomethane	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
2-Butanone (MEK)	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
n-Butylbenzene	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
sec-Butylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
tert-Butylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Carbon disulfide	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Carbon tetrachloride	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Chlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Chloroethane	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Chloroform	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Chloromethane	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
2-Chlorotoluene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
4-Chlorotoluene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2-Dibromo-3-Chloropropane	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Dibromochloromethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2-Dibromoethane (EDB)	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Dibromomethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2-Dichlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,3-Dichlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,4-Dichlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Dichlorodifluoromethane (Freon 12)	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1-Dichloroethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2-Dichloroethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1-Dichloroethene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
cis-1,2-Dichloroethene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
trans-1,2-Dichloroethene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2-Dichloropropane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,3-Dichloropropane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
2,2-Dichloropropane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1-Dichloropropene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
cis-1,3-Dichloropropene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
trans-1,3-Dichloropropene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Ethylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Hexachlorobutadiene	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
2-Hexanone (MBK)	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Isopropylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
4-Isopropyltoluene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Methyl tert-butyl ether	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
4-Methyl-2-pentanone (MIBK)	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Methylene Chloride	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Naphthalene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-4 (0-5)
Lab Sample ID: 620-17450-15
Date Collected: 03/14/24 13:40
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 89.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Styrene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1,1,2-Tetrachloroethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1,2,2-Tetrachloroethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Tetrachloroethene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Toluene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2,3-Trichlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2,4-Trichlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,3,5-Trichlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1,1-Trichloroethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1,2-Trichloroethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Trichloroethene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Trichlorofluoromethane (Freon 11)	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2,3-Trichloropropane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2,4-Trimethylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,3,5-Trimethylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Vinyl chloride	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
m,p-Xylene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
o-Xylene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Tetrahydrofuran	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Ethyl ether	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Tert-amyl methyl ether	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Ethyl tert-butyl ether	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
di-Isopropyl ether	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
tert-Butanol	ND		101		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,4-Dioxane	ND		101		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
trans-1,4-Dichloro-2-butene	ND		25.2		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Ethanol	ND		1010		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,3-Dichloropropene, Total	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Xylenes, Total	ND		15.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:15*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:15*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:15*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-4 (5-10)
Date Collected: 03/14/24 13:55
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-16
Matrix: Solid
Percent Solids: 92.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Acetone	ND		52.6		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Acrylonitrile	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Benzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Bromobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Bromochloromethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Bromodichloromethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Bromoform	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Bromomethane	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
2-Butanone (MEK)	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
n-Butylbenzene	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
sec-Butylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
tert-Butylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Carbon disulfide	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Carbon tetrachloride	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Chlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Chloroethane	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Chloroform	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Chloromethane	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
2-Chlorotoluene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
4-Chlorotoluene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2-Dibromo-3-Chloropropane	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Dibromochloromethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2-Dibromoethane (EDB)	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Dibromomethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2-Dichlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,3-Dichlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,4-Dichlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Dichlorodifluoromethane (Freon 12)	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1-Dichloroethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2-Dichloroethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1-Dichloroethene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
cis-1,2-Dichloroethene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
trans-1,2-Dichloroethene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2-Dichloropropane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,3-Dichloropropane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
2,2-Dichloropropane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1-Dichloropropene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
cis-1,3-Dichloropropene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
trans-1,3-Dichloropropene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Ethylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Hexachlorobutadiene	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
2-Hexanone (MBK)	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Isopropylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
4-Isopropyltoluene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Methyl tert-butyl ether	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
4-Methyl-2-pentanone (MIBK)	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Methylene Chloride	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Naphthalene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-4 (5-10)
Lab Sample ID: 620-17450-16
Date Collected: 03/14/24 13:55
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 92.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Styrene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1,1,2-Tetrachloroethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1,2,2-Tetrachloroethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Tetrachloroethene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Toluene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2,3-Trichlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2,4-Trichlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,3,5-Trichlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1,1-Trichloroethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1,2-Trichloroethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Trichloroethene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Trichlorofluoromethane (Freon 11)	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2,3-Trichloropropane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2,4-Trimethylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,3,5-Trimethylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Vinyl chloride	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
m,p-Xylene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
o-Xylene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Tetrahydrofuran	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Ethyl ether	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Tert-amyl methyl ether	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Ethyl tert-butyl ether	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
di-Isopropyl ether	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
tert-Butanol	ND		105		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,4-Dioxane	ND		105		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
trans-1,4-Dichloro-2-butene	ND		26.3		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Ethanol	ND		1050		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,3-Dichloropropene, Total	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Xylenes, Total	ND		15.8		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:41*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:41*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:41*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-5 (0-5)
Date Collected: 03/14/24 14:25
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-17
Matrix: Solid
Percent Solids: 89.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Acetone	ND		49.2		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Acrylonitrile	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Benzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Bromobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Bromochloromethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Bromodichloromethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Bromoform	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Bromomethane	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
2-Butanone (MEK)	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
n-Butylbenzene	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
sec-Butylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
tert-Butylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Carbon disulfide	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Carbon tetrachloride	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Chlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Chloroethane	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Chloroform	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Chloromethane	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
2-Chlorotoluene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
4-Chlorotoluene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2-Dibromo-3-Chloropropane	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Dibromochloromethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2-Dibromoethane (EDB)	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Dibromomethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2-Dichlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,3-Dichlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,4-Dichlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Dichlorodifluoromethane (Freon 12)	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1-Dichloroethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2-Dichloroethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1-Dichloroethene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
cis-1,2-Dichloroethene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
trans-1,2-Dichloroethene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2-Dichloropropane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,3-Dichloropropane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
2,2-Dichloropropane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1-Dichloropropene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
cis-1,3-Dichloropropene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
trans-1,3-Dichloropropene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Ethylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Hexachlorobutadiene	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
2-Hexanone (MBK)	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Isopropylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
4-Isopropyltoluene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Methyl tert-butyl ether	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
4-Methyl-2-pentanone (MIBK)	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Methylene Chloride	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Naphthalene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-5 (0-5)
Lab Sample ID: 620-17450-17
Date Collected: 03/14/24 14:25
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 89.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Styrene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1,1,2-Tetrachloroethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1,2,2-Tetrachloroethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Tetrachloroethene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Toluene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2,3-Trichlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2,4-Trichlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,3,5-Trichlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1,1-Trichloroethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1,2-Trichloroethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Trichloroethene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Trichlorofluoromethane (Freon 11)	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2,3-Trichloropropane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2,4-Trimethylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,3,5-Trimethylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Vinyl chloride	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
m,p-Xylene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
o-Xylene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Tetrahydrofuran	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Ethyl ether	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Tert-amyl methyl ether	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Ethyl tert-butyl ether	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
di-Isopropyl ether	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
tert-Butanol	ND		98.5		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,4-Dioxane	ND		98.5		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
trans-1,4-Dichloro-2-butene	ND		24.6		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Ethanol	ND		985		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,3-Dichloropropene, Total	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Xylenes, Total	ND		14.8		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:07*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:07*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:07*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-5 (5-10)
Date Collected: 03/14/24 12:10
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-18
Matrix: Solid
Percent Solids: 92.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Acetone	ND		44.3		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Acrylonitrile	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Benzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Bromobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Bromochloromethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Bromodichloromethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Bromoform	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Bromomethane	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
2-Butanone (MEK)	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
n-Butylbenzene	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
sec-Butylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
tert-Butylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Carbon disulfide	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Carbon tetrachloride	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Chlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Chloroethane	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Chloroform	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Chloromethane	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
2-Chlorotoluene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
4-Chlorotoluene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2-Dibromo-3-Chloropropane	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Dibromochloromethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2-Dibromoethane (EDB)	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Dibromomethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2-Dichlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,3-Dichlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,4-Dichlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Dichlorodifluoromethane (Freon 12)	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1-Dichloroethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2-Dichloroethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1-Dichloroethene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
cis-1,2-Dichloroethene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
trans-1,2-Dichloroethene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2-Dichloropropane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,3-Dichloropropane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
2,2-Dichloropropane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1-Dichloropropene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
cis-1,3-Dichloropropene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
trans-1,3-Dichloropropene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Ethylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Hexachlorobutadiene	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
2-Hexanone (MBK)	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Isopropylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
4-Isopropyltoluene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Methyl tert-butyl ether	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
4-Methyl-2-pentanone (MIBK)	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Methylene Chloride	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Naphthalene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-5 (5-10)
Date Collected: 03/14/24 12:10
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-18
Matrix: Solid
Percent Solids: 92.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Styrene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1,1,2-Tetrachloroethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1,2,2-Tetrachloroethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Tetrachloroethene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Toluene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2,3-Trichlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2,4-Trichlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,3,5-Trichlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1,1-Trichloroethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1,2-Trichloroethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Trichloroethene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Trichlorofluoromethane (Freon 11)	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2,3-Trichloropropane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2,4-Trimethylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,3,5-Trimethylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Vinyl chloride	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
m,p-Xylene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
o-Xylene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Tetrahydrofuran	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Ethyl ether	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Tert-amyl methyl ether	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Ethyl tert-butyl ether	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
di-Isopropyl ether	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
tert-Butanol	ND		88.7		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,4-Dioxane	ND		88.7		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
trans-1,4-Dichloro-2-butene	ND		22.2		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Ethanol	ND		887		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,3-Dichloropropene, Total	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Xylenes, Total	ND		13.3		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:33*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:33*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:33*	*1*

Surrogate Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-17450-1	ATC-3 (0-5)	97	97	99	97
620-17450-2	ATC-3 (5-10)	97	98	100	100
620-17450-3	ATC-2 (0-5)	97	97	100	100
620-17450-4	ATC-2 (5-10)	99	99	113	105
620-17450-5	ATC-1 (0-5)	97	99	101	100
620-17450-6	ATC-1 (5-10)	97	99	101	101
620-17450-9	ATC-8 (0-5)	98	98	101	100
620-17450-10	ATC-8 (5-10)	99	99	103	100
620-17450-11	ATC-7 (0-5)	97	99	100	101
620-17450-12	ATC-7 (5-10)	96	99	103	102
620-17450-13	ATC-6 (0-5)	95	99	99	101
620-17450-14	ATC-6 (5-10)	96	99	101	101
620-17450-15	ATC-4 (0-5)	97	100	108	103
620-17450-16	ATC-4 (5-10)	99	99	102	100
620-17450-17	ATC-5 (0-5)	96	98	101	101
620-17450-18	ATC-5 (5-10)	96	100	102	101
LCS 620-33086/1-A	Lab Control Sample	100	100	99	101
LCSD 620-33086/2-A	Lab Control Sample Dup	100	101	98	101
MB 620-33086/3-A	Method Blank	100	99	102	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
620-17450-7	Comp (0-5)	50	50	39	54	63	76
620-17450-8	Comp (5-10)	41	45	42	45	48	65
LCS 620-32927/2-A	Lab Control Sample	75	75	71	76	77	77
LCSD 620-32927/3-A	Lab Control Sample Dup	73	75	68	75	79	85
MB 620-32927/1-A	Method Blank	56	64	50	60	58	86

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Surrogate Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	TPHL	FBP
Lab Sample ID	Client Sample ID	(30-130)	(30-130)	(30-130)
620-17450-7	Comp (0-5)	43	76	51
620-17450-8	Comp (5-10)	46	65	41
MB 620-32927/1-A	Method Blank	55	86	57

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
FBP = 2-Fluorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(30-150)	(30-150)
620-17450-7	Comp (0-5)	73	88
620-17450-8	Comp (5-10)	79	66

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Method: 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1COD	OTPH
Lab Sample ID	Client Sample ID	(40-140)	(40-140)
620-17450-7	Comp (0-5)	100	72
620-17450-8	Comp (5-10)	84	73
LCS 620-32878/2-A	Lab Control Sample	84	79
LCSD 620-32878/3-A	Lab Control Sample Dup	69	64
MB 620-32878/1-A	Method Blank	58	55

Surrogate Legend

1COD = 1-Chlorooctadecane (Surr)
OTPH = o-Terphenyl (Surr)

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-33086/3-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33086

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Acetone	ND		50.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Acrylonitrile	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Benzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Bromobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Bromochloromethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Bromodichloromethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Bromoform	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Bromomethane	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
2-Butanone (MEK)	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
n-Butylbenzene	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
sec-Butylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
tert-Butylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Carbon disulfide	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Carbon tetrachloride	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Chlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Chloroethane	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Chloroform	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Chloromethane	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
2-Chlorotoluene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
4-Chlorotoluene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Dibromochloromethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2-Dibromoethane (EDB)	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Dibromomethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2-Dichlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,3-Dichlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,4-Dichlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Dichlorodifluoromethane (Freon 12)	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1-Dichloroethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2-Dichloroethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1-Dichloroethene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
cis-1,2-Dichloroethene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
trans-1,2-Dichloroethene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2-Dichloropropane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,3-Dichloropropane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
2,2-Dichloropropane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1-Dichloropropene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
cis-1,3-Dichloropropene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
trans-1,3-Dichloropropene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Ethylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Hexachlorobutadiene	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
2-Hexanone (MBK)	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Isopropylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
4-Isopropyltoluene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Methyl tert-butyl ether	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Methylene Chloride	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-33086/3-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33086

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
N-Propylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Styrene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1,1,2-Tetrachloroethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1,2,2-Tetrachloroethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Tetrachloroethene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Toluene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2,3-Trichlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2,4-Trichlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,3,5-Trichlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1,1-Trichloroethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1,2-Trichloroethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Trichloroethene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Trichlorofluoromethane (Freon 11)	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2,3-Trichloropropane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2,4-Trimethylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,3,5-Trimethylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Vinyl chloride	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
m,p-Xylene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
o-Xylene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Tetrahydrofuran	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Ethyl ether	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Tert-amyl methyl ether	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Ethyl tert-butyl ether	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
di-Isopropyl ether	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
tert-Butanol	ND		100		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,4-Dioxane	ND		100		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
trans-1,4-Dichloro-2-butene	ND		25.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Ethanol	ND		1000		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,3-Dichloropropene, Total	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Xylenes, Total	ND		15.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 10:56*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 10:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*03/26/24 07:37*	*03/26/24 10:56*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 10:56*	*1*

Lab Sample ID: LCS 620-33086/1-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33086

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,2-Trichlorotrifluoroethane (Freon 113)			20.0	18.80		ug/Kg		94	70 - 130		
Acetone			20.0	19.91	J	ug/Kg		100	70 - 130		
Acrylonitrile			20.0	18.90		ug/Kg		94	70 - 130		
Benzene			20.0	19.74		ug/Kg		99	70 - 130		
Bromobenzene			20.0	19.44		ug/Kg		97	70 - 130		

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-33086/1-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33086

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	20.0	19.65		ug/Kg		98	70 - 130
Bromodichloromethane	20.0	19.48		ug/Kg		97	70 - 130
Bromoform	20.0	18.46		ug/Kg		92	70 - 130
Bromomethane	20.0	18.25		ug/Kg		91	70 - 130
2-Butanone (MEK)	20.0	20.90		ug/Kg		105	70 - 130
n-Butylbenzene	20.0	18.28		ug/Kg		91	70 - 130
sec-Butylbenzene	20.0	19.96		ug/Kg		100	70 - 130
tert-Butylbenzene	20.0	18.99		ug/Kg		95	70 - 130
Carbon disulfide	20.0	19.07		ug/Kg		95	70 - 130
Carbon tetrachloride	20.0	19.07		ug/Kg		95	70 - 130
Chlorobenzene	20.0	19.44		ug/Kg		97	70 - 130
Chloroethane	20.0	18.66		ug/Kg		93	70 - 130
Chloroform	20.0	19.45		ug/Kg		97	70 - 130
Chloromethane	20.0	19.80		ug/Kg		99	70 - 130
2-Chlorotoluene	20.0	19.62		ug/Kg		98	70 - 130
4-Chlorotoluene	20.0	19.41		ug/Kg		97	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	19.73		ug/Kg		99	70 - 130
Dibromochloromethane	20.0	19.12		ug/Kg		96	70 - 130
1,2-Dibromoethane (EDB)	20.0	19.94		ug/Kg		100	70 - 130
Dibromomethane	20.0	19.81		ug/Kg		99	70 - 130
1,2-Dichlorobenzene	20.0	18.21		ug/Kg		91	70 - 130
1,3-Dichlorobenzene	20.0	19.39		ug/Kg		97	70 - 130
1,4-Dichlorobenzene	20.0	18.93		ug/Kg		95	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	18.58		ug/Kg		93	70 - 130
1,1-Dichloroethane	20.0	19.53		ug/Kg		98	70 - 130
1,2-Dichloroethane	20.0	19.50		ug/Kg		98	70 - 130
1,1-Dichloroethene	20.0	19.27		ug/Kg		96	70 - 130
cis-1,2-Dichloroethene	20.0	19.92		ug/Kg		100	70 - 130
trans-1,2-Dichloroethene	20.0	19.75		ug/Kg		99	70 - 130
1,2-Dichloropropane	20.0	19.63		ug/Kg		98	70 - 130
1,3-Dichloropropane	20.0	20.01		ug/Kg		100	70 - 130
2,2-Dichloropropane	20.0	19.68		ug/Kg		98	70 - 130
1,1-Dichloropropene	20.0	20.07		ug/Kg		100	70 - 130
cis-1,3-Dichloropropene	20.0	19.44		ug/Kg		97	70 - 130
trans-1,3-Dichloropropene	20.0	19.97		ug/Kg		100	70 - 130
Ethylbenzene	20.0	19.70		ug/Kg		98	70 - 130
Hexachlorobutadiene	20.0	18.83		ug/Kg		94	70 - 130
2-Hexanone (MBK)	20.0	18.68		ug/Kg		93	70 - 130
Isopropylbenzene	20.0	19.06		ug/Kg		95	70 - 130
4-Isopropyltoluene	20.0	19.14		ug/Kg		96	70 - 130
Methyl tert-butyl ether	20.0	20.44		ug/Kg		102	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	20.57		ug/Kg		103	70 - 130
Methylene Chloride	20.0	19.10		ug/Kg		95	70 - 130
Naphthalene	20.0	20.69		ug/Kg		103	70 - 130
N-Propylbenzene	20.0	19.71		ug/Kg		99	70 - 130
Styrene	20.0	19.27		ug/Kg		96	70 - 130
1,1,1,2-Tetrachloroethane	20.0	19.24		ug/Kg		96	70 - 130
1,1,2,2-Tetrachloroethane	20.0	19.05		ug/Kg		95	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-33086/1-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33086

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tetrachloroethene			20.0	19.72		ug/Kg		99	70 - 130		
Toluene			20.0	19.65		ug/Kg		98	70 - 130		
1,2,3-Trichlorobenzene			20.0	20.91		ug/Kg		105	70 - 130		
1,2,4-Trichlorobenzene			20.0	19.81		ug/Kg		99	70 - 130		
1,3,5-Trichlorobenzene			20.0	18.74		ug/Kg		94	70 - 130		
1,1,1-Trichloroethane			20.0	19.38		ug/Kg		97	70 - 130		
1,1,2-Trichloroethane			20.0	19.62		ug/Kg		98	70 - 130		
Trichloroethene			20.0	19.07		ug/Kg		95	70 - 130		
Trichlorofluoromethane (Freon 11)			20.0	19.01		ug/Kg		95	70 - 130		
1,2,3-Trichloropropane			20.0	19.44		ug/Kg		97	70 - 130		
1,2,4-Trimethylbenzene			20.0	18.86		ug/Kg		94	70 - 130		
1,3,5-Trimethylbenzene			20.0	19.64		ug/Kg		98	70 - 130		
Vinyl chloride			20.0	18.81		ug/Kg		94	70 - 130		
m,p-Xylene			20.0	19.63		ug/Kg		98	70 - 130		
o-Xylene			20.0	19.32		ug/Kg		97	70 - 130		
Tetrahydrofuran			20.0	20.17		ug/Kg		101	70 - 130		
Ethyl ether			20.0	19.60		ug/Kg		98	70 - 130		
Tert-amyl methyl ether			20.0	19.75		ug/Kg		99	70 - 130		
Ethyl tert-butyl ether			20.0	20.42		ug/Kg		102	70 - 130		
di-Isopropyl ether			20.0	20.16		ug/Kg		101	70 - 130		
tert-Butanol			200	215.9		ug/Kg		108	70 - 130		
1,4-Dioxane			200	209.6		ug/Kg		105	70 - 130		
trans-1,4-Dichloro-2-butene			20.0	18.36	J	ug/Kg		92	70 - 130		
Ethanol			400	389.9	J	ug/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 620-33086/2-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33086

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			20.0	19.20		ug/Kg		96	70 - 130	2	30
Acetone			20.0	17.70	J	ug/Kg		88	70 - 130	12	30
Acrylonitrile			20.0	18.69		ug/Kg		93	70 - 130	1	30
Benzene			20.0	19.95		ug/Kg		100	70 - 130	1	30
Bromobenzene			20.0	19.59		ug/Kg		98	70 - 130	1	30
Bromochloromethane			20.0	20.27		ug/Kg		101	70 - 130	3	30
Bromodichloromethane			20.0	19.66		ug/Kg		98	70 - 130	1	30
Bromoform			20.0	18.18		ug/Kg		91	70 - 130	2	30
Bromomethane			20.0	17.81		ug/Kg		89	70 - 130	2	30
2-Butanone (MEK)			20.0	18.73		ug/Kg		94	70 - 130	11	30
n-Butylbenzene			20.0	18.30		ug/Kg		92	70 - 130	0	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-33086/2-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 33087
Prep Batch: 33086

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene	20.0	19.93		ug/Kg		100	70 - 130	0	30
tert-Butylbenzene	20.0	19.53		ug/Kg		98	70 - 130	3	30
Carbon disulfide	20.0	19.12		ug/Kg		96	70 - 130	0	30
Carbon tetrachloride	20.0	19.60		ug/Kg		98	70 - 130	3	30
Chlorobenzene	20.0	19.75		ug/Kg		99	70 - 130	2	30
Chloroethane	20.0	19.15		ug/Kg		96	70 - 130	3	30
Chloroform	20.0	19.76		ug/Kg		99	70 - 130	2	30
Chloromethane	20.0	19.69		ug/Kg		98	70 - 130	1	30
2-Chlorotoluene	20.0	19.79		ug/Kg		99	70 - 130	1	30
4-Chlorotoluene	20.0	19.50		ug/Kg		98	70 - 130	0	30
1,2-Dibromo-3-Chloropropane	20.0	19.65		ug/Kg		98	70 - 130	0	30
Dibromochloromethane	20.0	19.25		ug/Kg		96	70 - 130	1	30
1,2-Dibromoethane (EDB)	20.0	19.72		ug/Kg		99	70 - 130	1	30
Dibromomethane	20.0	19.48		ug/Kg		97	70 - 130	2	30
1,2-Dichlorobenzene	20.0	18.63		ug/Kg		93	70 - 130	2	30
1,3-Dichlorobenzene	20.0	19.50		ug/Kg		97	70 - 130	1	30
1,4-Dichlorobenzene	20.0	19.10		ug/Kg		95	70 - 130	1	30
Dichlorodifluoromethane (Freon 12)	20.0	18.81		ug/Kg		94	70 - 130	1	30
1,1-Dichloroethane	20.0	19.83		ug/Kg		99	70 - 130	2	30
1,2-Dichloroethane	20.0	19.57		ug/Kg		98	70 - 130	0	30
1,1-Dichloroethene	20.0	19.71		ug/Kg		99	70 - 130	2	30
cis-1,2-Dichloroethene	20.0	20.11		ug/Kg		101	70 - 130	1	30
trans-1,2-Dichloroethene	20.0	19.86		ug/Kg		99	70 - 130	1	30
1,2-Dichloropropane	20.0	19.78		ug/Kg		99	70 - 130	1	30
1,3-Dichloropropane	20.0	19.81		ug/Kg		99	70 - 130	1	30
2,2-Dichloropropane	20.0	19.78		ug/Kg		99	70 - 130	0	30
1,1-Dichloropropene	20.0	20.47		ug/Kg		102	70 - 130	2	30
cis-1,3-Dichloropropene	20.0	19.56		ug/Kg		98	70 - 130	1	30
trans-1,3-Dichloropropene	20.0	19.71		ug/Kg		99	70 - 130	1	30
Ethylbenzene	20.0	19.96		ug/Kg		100	70 - 130	1	30
Hexachlorobutadiene	20.0	19.93		ug/Kg		100	70 - 130	6	30
2-Hexanone (MBK)	20.0	17.22		ug/Kg		86	70 - 130	8	30
Isopropylbenzene	20.0	19.32		ug/Kg		97	70 - 130	1	30
4-Isopropyltoluene	20.0	19.59		ug/Kg		98	70 - 130	2	30
Methyl tert-butyl ether	20.0	20.32		ug/Kg		102	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)	20.0	19.12		ug/Kg		96	70 - 130	7	30
Methylene Chloride	20.0	19.41		ug/Kg		97	70 - 130	2	30
Naphthalene	20.0	20.94		ug/Kg		105	70 - 130	1	30
N-Propylbenzene	20.0	19.79		ug/Kg		99	70 - 130	0	30
Styrene	20.0	19.22		ug/Kg		96	70 - 130	0	30
1,1,1,2-Tetrachloroethane	20.0	19.46		ug/Kg		97	70 - 130	1	30
1,1,2,2-Tetrachloroethane	20.0	18.74		ug/Kg		94	70 - 130	2	30
Tetrachloroethene	20.0	20.01		ug/Kg		100	70 - 130	1	30
Toluene	20.0	20.00		ug/Kg		100	70 - 130	2	30
1,2,3-Trichlorobenzene	20.0	21.12		ug/Kg		106	70 - 130	1	30
1,2,4-Trichlorobenzene	20.0	20.08		ug/Kg		100	70 - 130	1	30
1,3,5-Trichlorobenzene	20.0	19.10		ug/Kg		96	70 - 130	2	30
1,1,1-Trichloroethane	20.0	19.64		ug/Kg		98	70 - 130	1	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-33086/2-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33086

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane			20.0	19.85		ug/Kg		99	70 - 130	1	30
Trichloroethene			20.0	19.38		ug/Kg		97	70 - 130	2	30
Trichlorofluoromethane (Freon 11)			20.0	19.06		ug/Kg		95	70 - 130	0	30
1,2,3-Trichloropropane			20.0	19.00		ug/Kg		95	70 - 130	2	30
1,2,4-Trimethylbenzene			20.0	19.02		ug/Kg		95	70 - 130	1	30
1,3,5-Trimethylbenzene			20.0	19.95		ug/Kg		100	70 - 130	2	30
Vinyl chloride			20.0	18.85		ug/Kg		94	70 - 130	0	30
m,p-Xylene			20.0	19.88		ug/Kg		99	70 - 130	1	30
o-Xylene			20.0	19.51		ug/Kg		98	70 - 130	1	30
Tetrahydrofuran			20.0	19.04		ug/Kg		95	70 - 130	6	30
Ethyl ether			20.0	19.98		ug/Kg		100	70 - 130	2	30
Tert-amyl methyl ether			20.0	19.77		ug/Kg		99	70 - 130	0	30
Ethyl tert-butyl ether			20.0	20.59		ug/Kg		103	70 - 130	1	30
di-Isopropyl ether			20.0	20.36		ug/Kg		102	70 - 130	1	30
tert-Butanol			200	202.9		ug/Kg		101	70 - 130	6	30
1,4-Dioxane			200	191.8		ug/Kg		96	70 - 130	9	30
trans-1,4-Dichloro-2-butene			20.0	17.90	J	ug/Kg		90	70 - 130	2	30
Ethanol			400	313.8	J	ug/Kg		78	70 - 130	22	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-32927/1-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32927

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
1,2,4-Trichlorobenzene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
1,2-Dichlorobenzene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
1,3-Dichlorobenzene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
1,4-Dichlorobenzene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,4,5-Trichlorophenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,4,6-Trichlorophenol	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,4-Dichlorophenol	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,4-Dimethylphenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,4-Dinitrophenol	ND		660		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,4-Dinitrotoluene	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,6-Dinitrotoluene	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2-Chloronaphthalene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2-Chlorophenol	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2-Methylphenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2-Nitroaniline	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-32927/1-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32927

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
3 & 4 Methylphenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
3,3'-Dichlorobenzidine	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
3-Nitroaniline	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4,6-Dinitro-2-methylphenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4-Bromophenyl phenyl ether	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4-Chloro-3-methylphenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4-Chloroaniline	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4-Chlorophenyl phenyl ether	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4-Nitroaniline	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4-Nitrophenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Acetophenone	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Aniline	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Azobenzene/Diphenyldiazene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzidine	ND		660		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzoic acid	ND		667		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzyl alcohol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Bis(2-chloroethoxy)methane	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Bis(2-chloroethyl)ether	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
bis (2-chloroisopropyl) ether	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Bis(2-ethylhexyl) phthalate	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Butyl benzyl phthalate	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Carbazole	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Dibenzofuran	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Diethyl phthalate	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Dimethyl phthalate	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Di-n-butyl phthalate	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Di-n-octyl phthalate	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Hexachlorobenzene	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Hexachlorobutadiene	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Hexachlorocyclopentadiene	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Hexachloroethane	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Isophorone	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Nitrobenzene	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
N-Nitrosodimethylamine	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
N-Nitrosodi-n-propylamine	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
N-Nitrosodiphenylamine	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Pentachloronitrobenzene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Pentachlorophenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Phenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Pyridine	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*56*		*30 - 130*	*03/21/24 08:36*	*03/21/24 13:46*	*1*
2-Fluorophenol (Surr)	*64*		*15 - 110*	*03/21/24 08:36*	*03/21/24 13:46*	*1*
Nitrobenzene-d5 (Surr)	*50*		*30 - 130*	*03/21/24 08:36*	*03/21/24 13:46*	*1*
Phenol-d5 (Surr)	*60*		*15 - 110*	*03/21/24 08:36*	*03/21/24 13:46*	*1*
2,4,6-Tribromophenol (Surr)	*58*		*15 - 110*	*03/21/24 08:36*	*03/21/24 13:46*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-32927/1-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32927

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	86		30 - 130	03/21/24 08:36	03/21/24 13:46	1

Lab Sample ID: LCS 620-32927/2-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32927

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	1670	1173		ug/Kg		70	40 - 140
1,2,4-Trichlorobenzene	1670	1139		ug/Kg		68	40 - 140
1,2-Dichlorobenzene	1670	1122		ug/Kg		67	40 - 140
1,3-Dichlorobenzene	1670	1171		ug/Kg		70	40 - 140
1,4-Dichlorobenzene	1670	1147		ug/Kg		69	40 - 140
2,4,5-Trichlorophenol	1670	1191		ug/Kg		71	30 - 130
2,4,6-Trichlorophenol	1670	1318		ug/Kg		79	30 - 130
2,4-Dichlorophenol	1670	1163		ug/Kg		70	30 - 130
2,4-Dimethylphenol	1670	1113		ug/Kg		67	30 - 130
2,4-Dinitrophenol	1670	968.3		ug/Kg		58	30 - 130
2,4-Dinitrotoluene	1670	1430		ug/Kg		86	40 - 140
2,6-Dinitrotoluene	1670	1332		ug/Kg		80	40 - 140
2-Chloronaphthalene	1670	1284		ug/Kg		77	40 - 140
2-Chlorophenol	1670	1209		ug/Kg		73	30 - 130
2-Methylphenol	1670	1235		ug/Kg		74	30 - 130
2-Nitroaniline	1670	987.5		ug/Kg		59	40 - 140
2-Nitrophenol	1670	1130		ug/Kg		68	30 - 130
3 & 4 Methylphenol	1670	1243		ug/Kg		75	30 - 130
3,3'-Dichlorobenzidine	1670	1636		ug/Kg		98	40 - 140
3-Nitroaniline	1670	733.0		ug/Kg		44	40 - 140
4,6-Dinitro-2-methylphenol	1670	1157		ug/Kg		69	30 - 130
4-Bromophenyl phenyl ether	1670	1330		ug/Kg		80	40 - 140
4-Chloro-3-methylphenol	1670	1303		ug/Kg		78	30 - 130
4-Chloroaniline	1670	520.8	*-	ug/Kg		31	40 - 140
4-Chlorophenyl phenyl ether	1670	1380		ug/Kg		83	40 - 140
4-Nitroaniline	1670	929.3		ug/Kg		56	40 - 140
4-Nitrophenol	1670	1315		ug/Kg		79	30 - 130
Acetophenone	1670	1179		ug/Kg		71	40 - 140
Aniline	1670	606.8	*-	ug/Kg		36	40 - 140
Azobenzene/Diphenyldiazene	1670	885.0		ug/Kg		53	40 - 140
Benzidine	1670	399.0	J *-	ug/Kg		24	40 - 140
Benzoic acid	1670	443.3	*-	ug/Kg		27	30 - 130
Benzyl alcohol	1670	1074		ug/Kg		64	40 - 140
Bis(2-chloroethoxy)methane	1670	1054		ug/Kg		63	40 - 140
Bis(2-chloroethyl)ether	1670	1117		ug/Kg		67	40 - 140
bis (2-chloroisopropyl) ether	1670	998.5		ug/Kg		60	40 - 140
Bis(2-ethylhexyl) phthalate	1670	1399		ug/Kg		84	40 - 140
Butyl benzyl phthalate	1670	1403		ug/Kg		84	40 - 140
Carbazole	1670	951.1		ug/Kg		57	40 - 140
Dibenzofuran	1670	1326		ug/Kg		80	40 - 140
Diethyl phthalate	1670	1365		ug/Kg		82	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-32927/2-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32927

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Dimethyl phthalate			1670	1367		ug/Kg		82	40 - 140		
Di-n-butyl phthalate			1670	1373		ug/Kg		82	40 - 140		
Di-n-octyl phthalate			1670	1433		ug/Kg		86	40 - 140		
Hexachlorobenzene			1670	1358		ug/Kg		81	40 - 140		
Hexachlorobutadiene			1670	1008		ug/Kg		61	40 - 140		
Hexachlorocyclopentadiene			1670	974.9		ug/Kg		58	40 - 140		
Hexachloroethane			1670	1115		ug/Kg		67	40 - 140		
Isophorone			1670	1043		ug/Kg		63	40 - 140		
Nitrobenzene			1670	1166		ug/Kg		70	40 - 140		
N-Nitrosodimethylamine			1670	824.2		ug/Kg		49	40 - 140		
N-Nitrosodi-n-propylamine			1670	1231		ug/Kg		74	40 - 140		
N-Nitrosodiphenylamine			1670	1452		ug/Kg		87	40 - 140		
Pentachloronitrobenzene			1670	1479		ug/Kg		89	40 - 140		
Pentachlorophenol			1670	1067		ug/Kg		64	30 - 130		
Phenol			1670	1197		ug/Kg		72	40 - 140		
Pyridine			1670	582.1	*-	ug/Kg		35	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*75*		*30 - 130*
2-Fluorophenol (Surr)	*75*		*15 - 110*
Nitrobenzene-d5 (Surr)	*71*		*30 - 130*
Phenol-d5 (Surr)	*76*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*77*		*15 - 110*
Terphenyl-d14 (Surr)	*77*		*30 - 130*

Lab Sample ID: LCSD 620-32927/3-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32927

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			1670	1135		ug/Kg		68	40 - 140	3	30
1,2,4-Trichlorobenzene			1670	1061		ug/Kg		64	40 - 140	7	30
1,2-Dichlorobenzene			1670	1074		ug/Kg		64	40 - 140	4	30
1,3-Dichlorobenzene			1670	1105		ug/Kg		66	40 - 140	6	30
1,4-Dichlorobenzene			1670	1110		ug/Kg		67	40 - 140	3	30
2,4,5-Trichlorophenol			1670	1186		ug/Kg		71	30 - 130	0	30
2,4,6-Trichlorophenol			1670	1295		ug/Kg		78	30 - 130	2	30
2,4-Dichlorophenol			1670	1129		ug/Kg		68	30 - 130	3	30
2,4-Dimethylphenol			1670	1091		ug/Kg		65	30 - 130	2	30
2,4-Dinitrophenol			1670	994.5		ug/Kg		60	30 - 130	3	30
2,4-Dinitrotoluene			1670	1436		ug/Kg		86	40 - 140	0	30
2,6-Dinitrotoluene			1670	1348		ug/Kg		81	40 - 140	1	30
2-Chloronaphthalene			1670	1240		ug/Kg		74	40 - 140	3	30
2-Chlorophenol			1670	1173		ug/Kg		70	30 - 130	3	30
2-Methylphenol			1670	1206		ug/Kg		72	30 - 130	2	30
2-Nitroaniline			1670	994.4		ug/Kg		60	40 - 140	1	30
2-Nitrophenol			1670	1066		ug/Kg		64	30 - 130	6	30
3 & 4 Methylphenol			1670	1217		ug/Kg		73	30 - 130	2	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-32927/3-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32927

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3,3'-Dichlorobenzidine			1670	1610		ug/Kg		97	40 - 140	2	30
3-Nitroaniline			1670	716.5		ug/Kg		43	40 - 140	2	30
4,6-Dinitro-2-methylphenol			1670	1193		ug/Kg		72	30 - 130	3	30
4-Bromophenyl phenyl ether			1670	1332		ug/Kg		80	40 - 140	0	30
4-Chloro-3-methylphenol			1670	1264		ug/Kg		76	30 - 130	3	30
4-Chloroaniline			1670	433.8	*-	ug/Kg		26	40 - 140	18	30
4-Chlorophenyl phenyl ether			1670	1388		ug/Kg		83	40 - 140	1	30
4-Nitroaniline			1670	969.4		ug/Kg		58	40 - 140	4	30
4-Nitrophenol			1670	1261		ug/Kg		76	30 - 130	4	30
Acetophenone			1670	1136		ug/Kg		68	40 - 140	4	30
Aniline			1670	545.3	*-	ug/Kg		33	40 - 140	11	30
Azobenzene/Diphenyldiazene			1670	871.0		ug/Kg		52	40 - 140	2	30
Benzidine			1670	391.4	J *-	ug/Kg		23	40 - 140	2	30
Benzoic acid			1670	392.4	*-	ug/Kg		24	30 - 130	12	30
Benzyl alcohol			1670	1052		ug/Kg		63	40 - 140	2	30
Bis(2-chloroethoxy)methane			1670	1011		ug/Kg		61	40 - 140	4	30
Bis(2-chloroethyl)ether			1670	1081		ug/Kg		65	40 - 140	3	30
bis (2-chloroisopropyl) ether			1670	972.2		ug/Kg		58	40 - 140	3	30
Bis(2-ethylhexyl) phthalate			1670	1465		ug/Kg		88	40 - 140	5	30
Butyl benzyl phthalate			1670	1454		ug/Kg		87	40 - 140	4	30
Carbazole			1670	987.3		ug/Kg		59	40 - 140	4	30
Dibenzofuran			1670	1342		ug/Kg		81	40 - 140	1	30
Diethyl phthalate			1670	1398		ug/Kg		84	40 - 140	2	30
Dimethyl phthalate			1670	1360		ug/Kg		82	40 - 140	0	30
Di-n-butyl phthalate			1670	1404		ug/Kg		84	40 - 140	2	30
Di-n-octyl phthalate			1670	1511		ug/Kg		91	40 - 140	5	30
Hexachlorobenzene			1670	1372		ug/Kg		82	40 - 140	1	30
Hexachlorobutadiene			1670	945.1		ug/Kg		57	40 - 140	6	30
Hexachlorocyclopentadiene			1670	956.8		ug/Kg		57	40 - 140	2	30
Hexachloroethane			1670	1065		ug/Kg		64	40 - 140	5	30
Isophorone			1670	990.8		ug/Kg		59	40 - 140	5	30
Nitrobenzene			1670	1108		ug/Kg		66	40 - 140	5	30
N-Nitrosodimethylamine			1670	813.7		ug/Kg		49	40 - 140	1	30
N-Nitrosodi-n-propylamine			1670	1218		ug/Kg		73	40 - 140	1	30
N-Nitrosodiphenylamine			1670	1454		ug/Kg		87	40 - 140	0	30
Pentachloronitrobenzene			1670	1494		ug/Kg		90	40 - 140	1	30
Pentachlorophenol			1670	1098		ug/Kg		66	30 - 130	3	30
Phenol			1670	1189		ug/Kg		71	40 - 140	1	30
Pyridine			1670	550.5	*-	ug/Kg		33	40 - 140	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*73*		*30 - 130*
2-Fluorophenol (Surr)	*75*		*15 - 110*
Nitrobenzene-d5 (Surr)	*68*		*30 - 130*
Phenol-d5 (Surr)	*75*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*
Terphenyl-d14 (Surr)	*85*		*30 - 130*

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Lab Sample ID: MB 620-32927/1-A
Matrix: Solid
Analysis Batch: 32952

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32927

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Acenaphthylene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
1-Methylnaphthalene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Anthracene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzo[a]anthracene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzo[a]pyrene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzo[b]fluoranthene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzo[g,h,i]perylene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzo[k]fluoranthene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Chrysene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Dibenz(a,h)anthracene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Fluoranthene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Fluorene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Indeno[1,2,3-cd]pyrene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2-Methylnaphthalene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Naphthalene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Phenanthrene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Pyrene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Bis(2-ethylhexyl) phthalate	ND		33.3		ug/Kg		03/21/24 08:36	03/21/24 13:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*55*		*30 - 130*	*03/21/24 08:36*	*03/21/24 13:46*	*1*
Terphenyl-d14 (Surr)	*86*		*30 - 130*	*03/21/24 08:36*	*03/21/24 13:46*	*1*
2-Fluorobiphenyl (Surr)	*57*		*30 - 130*	*03/21/24 08:36*	*03/21/24 13:46*	*1*

Method: 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Lab Sample ID: MB 620-32878/1-A
Matrix: Solid
Analysis Batch: 32965

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32878

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TEPH (C9-C36)	ND		13.3		mg/Kg		03/19/24 17:07	03/21/24 13:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*58*		*40 - 140*	*03/19/24 17:07*	*03/21/24 13:42*	*1*
o-Terphenyl (Surr)	*55*		*40 - 140*	*03/19/24 17:07*	*03/21/24 13:42*	*1*

Lab Sample ID: LCS 620-32878/2-A
Matrix: Solid
Analysis Batch: 32965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32878

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TEPH (C9-C36)			360	274.4		mg/Kg		76	30 - 100		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctadecane (Surr)	*84*		*40 - 140*
o-Terphenyl (Surr)	*79*		*40 - 140*

Method: 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Lab Sample ID: LCSD 620-32878/3-A
Matrix: Solid
Analysis Batch: 32965

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32878

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TEPH (C9-C36)			360	215.3		mg/Kg		60	30 - 100	24	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctadecane (Surr)	*69*		*40 - 140*
o-Terphenyl (Surr)	*64*		*40 - 140*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 620-33090/1-A
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33090

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.50		mg/Kg		03/26/24 08:24	03/27/24 14:42	1
Barium	ND		1.00		mg/Kg		03/26/24 08:24	03/27/24 14:42	1
Cadmium	ND		0.500		mg/Kg		03/26/24 08:24	03/27/24 14:42	1
Chromium	ND		1.00		mg/Kg		03/26/24 08:24	03/27/24 14:42	1
Lead	ND		1.50		mg/Kg		03/26/24 08:24	03/27/24 14:42	1
Selenium	ND		1.50		mg/Kg		03/26/24 08:24	03/27/24 14:42	1
Silver	ND		1.50		mg/Kg		03/26/24 08:24	03/27/24 14:42	1

Lab Sample ID: LCSSRM 620-33090/2-A
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33090

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			223	189.0		mg/Kg		84.8	70.4 - 102.2		
Barium			445	462.6		mg/Kg		104.0	78.0 - 110.8		
Cadmium			226	235.6		mg/Kg		104.3	73.9 - 104.9		
Chromium			230	206.4		mg/Kg		89.7	73.5 - 107.0		
Lead			275	266.9		mg/Kg		97.1	74.2 - 108.0		
Selenium			137	127.0		mg/Kg		92.7	70.9 - 108.8		
Silver			75.3	58.60		mg/Kg		77.8	72.0 - 110.1		

Lab Sample ID: 620-17450-7 MS
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (0-5)
Prep Type: Total/NA
Prep Batch: 33090

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic	ND	F1	100	75.72	F1	mg/Kg	☼	73	75 - 125		
Cadmium	ND		100	79.83		mg/Kg	☼	80	75 - 125		
Chromium	13.6	F1	100	86.58	F1	mg/Kg	☼	73	75 - 125		
Lead	21.0		100	98.74		mg/Kg	☼	78	75 - 125		
Selenium	ND	F1	100	72.55	F1	mg/Kg	☼	73	75 - 125		

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-17450-7 MS
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (0-5)
Prep Type: Total/NA
Prep Batch: 33090

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	ND	F1	100	46.65	F1	mg/Kg	☼	47	75 - 125

Lab Sample ID: 620-17450-7 MSD
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (0-5)
Prep Type: Total/NA
Prep Batch: 33090

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND	F1	92.8	85.32		mg/Kg	☼	89	75 - 125	12	20
Barium	45.9		92.8	147.8		mg/Kg	☼	110	75 - 125	6	20
Cadmium	ND		92.8	88.13		mg/Kg	☼	95	75 - 125	10	20
Chromium	13.6	F1	92.8	95.99		mg/Kg	☼	89	75 - 125	10	20
Lead	21.0		92.8	101.7		mg/Kg	☼	87	75 - 125	3	20
Selenium	ND	F1	92.8	80.90		mg/Kg	☼	87	75 - 125	11	20
Silver	ND	F1	92.9	44.43	F1	mg/Kg	☼	48	75 - 125	5	20

Lab Sample ID: 620-17450-7 DU
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (0-5)
Prep Type: Total/NA
Prep Batch: 33090

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	ND	F1	ND		mg/Kg	☼	NC	20
Cadmium	ND		ND		mg/Kg	☼	NC	20
Chromium	13.6	F1	12.73		mg/Kg	☼	7	20
Lead	21.0		25.81		mg/Kg	☼	20	20
Selenium	ND	F1	ND		mg/Kg	☼	NC	20
Silver	ND	F1	ND		mg/Kg	☼	NC	20

Lab Sample ID: MB 620-33121/1-A
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33121

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0150	mg/L		03/26/24 15:40	03/27/24 13:11	1

Lab Sample ID: LCS 620-33121/2-A
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33121

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	2.00	1.976		mg/L		99	80 - 120

Lab Sample ID: LB 620-32864/1-B
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 33121

Analyte	LB Result	LB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0150	mg/L		03/26/24 15:40	03/27/24 13:59	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-17450-8 MS
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (5-10)
Prep Type: TCLP
Prep Batch: 33121

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	ND		2.00	1.724		mg/L		86	75 - 125

Lab Sample ID: 620-17450-8 MSD
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (5-10)
Prep Type: TCLP
Prep Batch: 33121

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		2.00	1.767		mg/L		88	75 - 125	2	20

Lab Sample ID: 620-17450-8 DU
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (5-10)
Prep Type: TCLP
Prep Batch: 33121

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	ND		ND		mg/L		NC	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 620-32865/1-A
Matrix: Solid
Analysis Batch: 32883

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32865

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0500		mg/Kg		03/19/24 11:28	03/19/24 15:14	1

Lab Sample ID: LCSSRM 620-32865/2-A ^20
Matrix: Solid
Analysis Batch: 32883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32865

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury			25.5	22.86		mg/Kg		89.6	71.4 - 125. 1

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 410-485688/1
Matrix: Solid
Analysis Batch: 485688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Flashpoint			81.0	80.00		Degrees F		99	96.9 - 103. 1

Lab Sample ID: LCSD 410-485688/2
Matrix: Solid
Analysis Batch: 485688

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Flashpoint			81.0	79.00		Degrees F		98	96.9 - 103. 1	1	4

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 410-486607/1-A
Matrix: Solid
Analysis Batch: 486903

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 486607

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		60.0		mg/Kg		03/25/24 08:25	03/25/24 16:36	1

Lab Sample ID: LCS 410-486607/2-A
Matrix: Solid
Analysis Batch: 486903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486607

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Reactive			1000	ND		mg/Kg		3	0 - 5.14		

Lab Sample ID: LCSD 410-486607/3-A
Matrix: Solid
Analysis Batch: 486903

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 486607

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Reactive			1000	ND		mg/Kg		3	0 - 5.14	11	11

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 410-486607/1-A
Matrix: Solid
Analysis Batch: 486731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 486607

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		160		mg/Kg		03/25/24 08:25	03/25/24 12:45	1

Lab Sample ID: LCS 410-486607/26-A
Matrix: Solid
Analysis Batch: 486731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486607

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide, Reactive			538	394.3		mg/Kg		73	62 - 104		

Lab Sample ID: LCSD 410-486607/27-A
Matrix: Solid
Analysis Batch: 486731

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 486607

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide, Reactive			538	404.2		mg/Kg		75	62 - 104	2	21

Method: 9045D - pH

Lab Sample ID: LCDSRM 620-33213/6
Matrix: Solid
Analysis Batch: 33213

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
pH			6.00	6.1		SU		100.8	97.5 - 102.5	1	5

Method: 9045D - pH (Continued)

Lab Sample ID: LCSSRM 620-33213/5
Matrix: Solid
Analysis Batch: 33213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
pH			6.00	6.0		SU		100.2	97.5 - 102.5		

Lab Sample ID: MB 620-33195/1-A
Matrix: Solid
Analysis Batch: 33213

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6				SU			03/28/24 11:32	1
Temperature	23.4				Degrees C			03/28/24 11:32	1

Lab Sample ID: 620-17450-7 DU
Matrix: Solid
Analysis Batch: 33213

Client Sample ID: Comp (0-5)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	8.4			8.6		SU				2	5
Temperature	23.4			23.4		Degrees C				0	5

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 410-485914/4
Matrix: Solid
Analysis Batch: 485914

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		300		mg/Kg			03/21/24 12:15	1

Lab Sample ID: LCS 410-485914/3
Matrix: Solid
Analysis Batch: 485914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon			3920	4950		mg/Kg		126	36 - 163		

Lab Sample ID: 620-17450-7 MS
Matrix: Solid
Analysis Batch: 485914

Client Sample ID: Comp (0-5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon	4780	F1	177000	24340	F1	mg/Kg		11	36 - 163		

Lab Sample ID: 620-17450-7 MSD
Matrix: Solid
Analysis Batch: 485914

Client Sample ID: Comp (0-5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	4780	F1	17500	23530		mg/Kg		107	36 - 163	3	20

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: LCDSRM 620-33209/3
Matrix: Solid
Analysis Batch: 33209

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Specific Conductance			1410	1405		uS/cm		99.4	95.0 - 105.0	0	20

Lab Sample ID: LCSSRM 620-33209/2
Matrix: Solid
Analysis Batch: 33209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Specific Conductance			1410	1402		uS/cm		99.2	95.0 - 105.0		

Lab Sample ID: MB 620-33195/1-A
Matrix: Solid
Analysis Batch: 33209

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		10.0		uS/cm			03/28/24 11:04	1

Lab Sample ID: 620-17450-7 DU
Matrix: Solid
Analysis Batch: 33209

Client Sample ID: Comp (0-5)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Specific Conductance	1200			1171		uS/cm				2	5

GC/MS VOA

Pre Prep Batch: 32834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-1	ATC-3 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-2	ATC-3 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-3	ATC-2 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-4	ATC-2 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-5	ATC-1 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-6	ATC-1 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-9	ATC-8 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-10	ATC-8 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-11	ATC-7 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-12	ATC-7 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-13	ATC-6 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-14	ATC-6 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-15	ATC-4 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-16	ATC-4 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-17	ATC-5 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-18	ATC-5 (5-10)	Total/NA	Solid	Frozen Preserve	

Prep Batch: 33086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-1	ATC-3 (0-5)	Total/NA	Solid	5035	32834
620-17450-2	ATC-3 (5-10)	Total/NA	Solid	5035	32834
620-17450-3	ATC-2 (0-5)	Total/NA	Solid	5035	32834
620-17450-4	ATC-2 (5-10)	Total/NA	Solid	5035	32834
620-17450-5	ATC-1 (0-5)	Total/NA	Solid	5035	32834
620-17450-6	ATC-1 (5-10)	Total/NA	Solid	5035	32834
620-17450-9	ATC-8 (0-5)	Total/NA	Solid	5035	32834
620-17450-10	ATC-8 (5-10)	Total/NA	Solid	5035	32834
620-17450-11	ATC-7 (0-5)	Total/NA	Solid	5035	32834
620-17450-12	ATC-7 (5-10)	Total/NA	Solid	5035	32834
620-17450-13	ATC-6 (0-5)	Total/NA	Solid	5035	32834
620-17450-14	ATC-6 (5-10)	Total/NA	Solid	5035	32834
620-17450-15	ATC-4 (0-5)	Total/NA	Solid	5035	32834
620-17450-16	ATC-4 (5-10)	Total/NA	Solid	5035	32834
620-17450-17	ATC-5 (0-5)	Total/NA	Solid	5035	32834
620-17450-18	ATC-5 (5-10)	Total/NA	Solid	5035	32834
MB 620-33086/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-33086/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-33086/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

GC/MS VOA

Analysis Batch: 33087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-1	ATC-3 (0-5)	Total/NA	Solid	8260C	33086
620-17450-2	ATC-3 (5-10)	Total/NA	Solid	8260C	33086
620-17450-3	ATC-2 (0-5)	Total/NA	Solid	8260C	33086
620-17450-4	ATC-2 (5-10)	Total/NA	Solid	8260C	33086
620-17450-5	ATC-1 (0-5)	Total/NA	Solid	8260C	33086
620-17450-6	ATC-1 (5-10)	Total/NA	Solid	8260C	33086
620-17450-9	ATC-8 (0-5)	Total/NA	Solid	8260C	33086
620-17450-10	ATC-8 (5-10)	Total/NA	Solid	8260C	33086
620-17450-11	ATC-7 (0-5)	Total/NA	Solid	8260C	33086
620-17450-12	ATC-7 (5-10)	Total/NA	Solid	8260C	33086
620-17450-13	ATC-6 (0-5)	Total/NA	Solid	8260C	33086
620-17450-14	ATC-6 (5-10)	Total/NA	Solid	8260C	33086
620-17450-15	ATC-4 (0-5)	Total/NA	Solid	8260C	33086
620-17450-16	ATC-4 (5-10)	Total/NA	Solid	8260C	33086
620-17450-17	ATC-5 (0-5)	Total/NA	Solid	8260C	33086
620-17450-18	ATC-5 (5-10)	Total/NA	Solid	8260C	33086
MB 620-33086/3-A	Method Blank	Total/NA	Solid	8260C	33086
LCS 620-33086/1-A	Lab Control Sample	Total/NA	Solid	8260C	33086
LCSD 620-33086/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	33086

GC/MS Semi VOA

Prep Batch: 32927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	3546	
620-17450-8	Comp (5-10)	Total/NA	Solid	3546	
MB 620-32927/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-32927/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-32927/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 32951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	8270D	32927
620-17450-8	Comp (5-10)	Total/NA	Solid	8270D	32927
MB 620-32927/1-A	Method Blank	Total/NA	Solid	8270D	32927
LCS 620-32927/2-A	Lab Control Sample	Total/NA	Solid	8270D	32927
LCSD 620-32927/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	32927

Analysis Batch: 32952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	8270D_LL_PAH	32927
620-17450-8	Comp (5-10)	Total/NA	Solid	8270D_LL_PAH	32927
MB 620-32927/1-A	Method Blank	Total/NA	Solid	8270D_LL_PAH	32927

GC Semi VOA

Prep Batch: 32873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	3540C	
620-17450-8	Comp (5-10)	Total/NA	Solid	3540C	

GC Semi VOA

Prep Batch: 32878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	3546	
620-17450-8	Comp (5-10)	Total/NA	Solid	3546	
MB 620-32878/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-32878/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-32878/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 32965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	8100	32878
620-17450-8	Comp (5-10)	Total/NA	Solid	8100	32878
MB 620-32878/1-A	Method Blank	Total/NA	Solid	8100	32878
LCS 620-32878/2-A	Lab Control Sample	Total/NA	Solid	8100	32878
LCSD 620-32878/3-A	Lab Control Sample Dup	Total/NA	Solid	8100	32878

Analysis Batch: 32987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	8082	32873
620-17450-8	Comp (5-10)	Total/NA	Solid	8082	32873

Metals

Leach Batch: 32864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	TCLP	Solid	1311	
620-17450-8	Comp (5-10)	TCLP	Solid	1311	
LB 620-32864/1-B	Method Blank	TCLP	Solid	1311	
620-17450-8 MS	Comp (5-10)	TCLP	Solid	1311	
620-17450-8 MSD	Comp (5-10)	TCLP	Solid	1311	
620-17450-8 DU	Comp (5-10)	TCLP	Solid	1311	

Prep Batch: 32865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	7471B	
620-17450-8	Comp (5-10)	Total/NA	Solid	7471B	
MB 620-32865/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 620-32865/2-A ^20	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 32883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	7471A	32865
620-17450-8	Comp (5-10)	Total/NA	Solid	7471A	32865
MB 620-32865/1-A	Method Blank	Total/NA	Solid	7471A	32865
LCSSRM 620-32865/2-A ^20	Lab Control Sample	Total/NA	Solid	7471A	32865

Prep Batch: 33090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	3050B	
620-17450-8	Comp (5-10)	Total/NA	Solid	3050B	
MB 620-33090/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 620-33090/2-A	Lab Control Sample	Total/NA	Solid	3050B	
620-17450-7 MS	Comp (0-5)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 33090 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7 MSD	Comp (0-5)	Total/NA	Solid	3050B	
620-17450-7 DU	Comp (0-5)	Total/NA	Solid	3050B	

Prep Batch: 33121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	TCLP	Solid	3010A	32864
620-17450-8	Comp (5-10)	TCLP	Solid	3010A	32864
LB 620-32864/1-B	Method Blank	TCLP	Solid	3010A	32864
MB 620-33121/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 620-33121/2-A	Lab Control Sample	Total/NA	Solid	3010A	
620-17450-8 MS	Comp (5-10)	TCLP	Solid	3010A	32864
620-17450-8 MSD	Comp (5-10)	TCLP	Solid	3010A	32864
620-17450-8 DU	Comp (5-10)	TCLP	Solid	3010A	32864

Analysis Batch: 33178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	TCLP	Solid	6010D	33121
620-17450-7	Comp (0-5)	Total/NA	Solid	6010D	33090
620-17450-8	Comp (5-10)	TCLP	Solid	6010D	33121
620-17450-8	Comp (5-10)	Total/NA	Solid	6010D	33090
LB 620-32864/1-B	Method Blank	TCLP	Solid	6010D	33121
MB 620-33090/1-A	Method Blank	Total/NA	Solid	6010D	33090
MB 620-33121/1-A	Method Blank	Total/NA	Solid	6010D	33121
LCS 620-33121/2-A	Lab Control Sample	Total/NA	Solid	6010D	33121
LCSSRM 620-33090/2-A	Lab Control Sample	Total/NA	Solid	6010D	33090
620-17450-7 MS	Comp (0-5)	Total/NA	Solid	6010D	33090
620-17450-7 MSD	Comp (0-5)	Total/NA	Solid	6010D	33090
620-17450-8 MS	Comp (5-10)	TCLP	Solid	6010D	33121
620-17450-8 MSD	Comp (5-10)	TCLP	Solid	6010D	33121
620-17450-7 DU	Comp (0-5)	Total/NA	Solid	6010D	33090
620-17450-8 DU	Comp (5-10)	TCLP	Solid	6010D	33121

General Chemistry

Analysis Batch: 32837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-1	ATC-3 (0-5)	Total/NA	Solid	Moisture	
620-17450-2	ATC-3 (5-10)	Total/NA	Solid	Moisture	
620-17450-3	ATC-2 (0-5)	Total/NA	Solid	Moisture	
620-17450-4	ATC-2 (5-10)	Total/NA	Solid	Moisture	
620-17450-5	ATC-1 (0-5)	Total/NA	Solid	Moisture	
620-17450-6	ATC-1 (5-10)	Total/NA	Solid	Moisture	
620-17450-7	Comp (0-5)	Total/NA	Solid	Moisture	
620-17450-8	Comp (5-10)	Total/NA	Solid	Moisture	
620-17450-9	ATC-8 (0-5)	Total/NA	Solid	Moisture	
620-17450-10	ATC-8 (5-10)	Total/NA	Solid	Moisture	
620-17450-11	ATC-7 (0-5)	Total/NA	Solid	Moisture	
620-17450-12	ATC-7 (5-10)	Total/NA	Solid	Moisture	
620-17450-13	ATC-6 (0-5)	Total/NA	Solid	Moisture	
620-17450-14	ATC-6 (5-10)	Total/NA	Solid	Moisture	
MB 620-32837/1	Method Blank	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 32837 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-8 DU	Comp (5-10)	Total/NA	Solid	Moisture	

Analysis Batch: 32858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-15	ATC-4 (0-5)	Total/NA	Solid	Moisture	
620-17450-16	ATC-4 (5-10)	Total/NA	Solid	Moisture	
620-17450-17	ATC-5 (0-5)	Total/NA	Solid	Moisture	
620-17450-18	ATC-5 (5-10)	Total/NA	Solid	Moisture	
MB 620-32858/1	Method Blank	Total/NA	Solid	Moisture	
620-17450-15 DU	ATC-4 (0-5)	Total/NA	Solid	Moisture	

Leach Batch: 33195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Soluble	Solid	DI Leach	
620-17450-8	Comp (5-10)	Soluble	Solid	DI Leach	
MB 620-33195/1-A	Method Blank	Soluble	Solid	DI Leach	
620-17450-7 DU	Comp (0-5)	Soluble	Solid	DI Leach	

Analysis Batch: 33209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Soluble	Solid	SM 2510B	33195
620-17450-8	Comp (5-10)	Soluble	Solid	SM 2510B	33195
MB 620-33195/1-A	Method Blank	Soluble	Solid	SM 2510B	33195
LCDSRM 620-33209/3	Lab Control Sample Dup	Total/NA	Solid	SM 2510B	
LCSSRM 620-33209/2	Lab Control Sample	Total/NA	Solid	SM 2510B	
620-17450-7 DU	Comp (0-5)	Soluble	Solid	SM 2510B	33195

Analysis Batch: 33213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Soluble	Solid	9045D	33195
620-17450-8	Comp (5-10)	Soluble	Solid	9045D	33195
MB 620-33195/1-A	Method Blank	Soluble	Solid	9045D	33195
LCDSRM 620-33213/6	Lab Control Sample Dup	Total/NA	Solid	9045D	
LCSSRM 620-33213/5	Lab Control Sample	Total/NA	Solid	9045D	
620-17450-7 DU	Comp (0-5)	Soluble	Solid	9045D	33195

Analysis Batch: 485688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	1010A	
620-17450-8	Comp (5-10)	Total/NA	Solid	1010A	
LCS 410-485688/1	Lab Control Sample	Total/NA	Solid	1010A	
LCSD 410-485688/2	Lab Control Sample Dup	Total/NA	Solid	1010A	

Analysis Batch: 485914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	9060	
620-17450-8	Comp (5-10)	Total/NA	Solid	9060	
MB 410-485914/4	Method Blank	Total/NA	Solid	9060	
LCS 410-485914/3	Lab Control Sample	Total/NA	Solid	9060	
620-17450-7 MS	Comp (0-5)	Total/NA	Solid	9060	
620-17450-7 MSD	Comp (0-5)	Total/NA	Solid	9060	

QC Association Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

General Chemistry

Prep Batch: 486607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	7.3.4	
620-17450-8	Comp (5-10)	Total/NA	Solid	7.3.4	
MB 410-486607/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 410-486607/26-A	Lab Control Sample	Total/NA	Solid	7.3.4	
LCS 410-486607/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	
LCSD 410-486607/27-A	Lab Control Sample Dup	Total/NA	Solid	7.3.4	
LCSD 410-486607/3-A	Lab Control Sample Dup	Total/NA	Solid	7.3.4	

Analysis Batch: 486731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	9034	486607
620-17450-8	Comp (5-10)	Total/NA	Solid	9034	486607
MB 410-486607/1-A	Method Blank	Total/NA	Solid	9034	486607
LCS 410-486607/26-A	Lab Control Sample	Total/NA	Solid	9034	486607
LCSD 410-486607/27-A	Lab Control Sample Dup	Total/NA	Solid	9034	486607

Analysis Batch: 486903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	9012	486607
620-17450-8	Comp (5-10)	Total/NA	Solid	9012	486607
MB 410-486607/1-A	Method Blank	Total/NA	Solid	9012	486607
LCS 410-486607/2-A	Lab Control Sample	Total/NA	Solid	9012	486607
LCSD 410-486607/3-A	Lab Control Sample Dup	Total/NA	Solid	9012	486607

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-3 (0-5)
Lab Sample ID: 620-17450-1
Date Collected: 03/15/24 09:10
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-3 (0-5)
Lab Sample ID: 620-17450-1
Date Collected: 03/15/24 09:10
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/15/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 12:08

Client Sample ID: ATC-3 (5-10)
Lab Sample ID: 620-17450-2
Date Collected: 03/15/24 09:30
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-3 (5-10)
Lab Sample ID: 620-17450-2
Date Collected: 03/15/24 09:30
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/15/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 12:33

Client Sample ID: ATC-2 (0-5)
Lab Sample ID: 620-17450-3
Date Collected: 03/15/24 10:15
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-2 (0-5)
Lab Sample ID: 620-17450-3
Date Collected: 03/15/24 10:15
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/15/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 12:58

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-2 (5-10)
Lab Sample ID: 620-17450-4
Date Collected: 03/15/24 11:00
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-2 (5-10)
Lab Sample ID: 620-17450-4
Date Collected: 03/15/24 11:00
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/15/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 13:23

Client Sample ID: ATC-1 (0-5)
Lab Sample ID: 620-17450-5
Date Collected: 03/15/24 11:20
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-1 (0-5)
Lab Sample ID: 620-17450-5
Date Collected: 03/15/24 11:20
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/15/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 13:49

Client Sample ID: ATC-1 (5-10)
Lab Sample ID: 620-17450-6
Date Collected: 03/15/24 11:30
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-1 (5-10)
Lab Sample ID: 620-17450-6
Date Collected: 03/15/24 11:30
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/15/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 14:14

Client Sample ID: Comp (0-5)
Lab Sample ID: 620-17450-7

Date Collected: 03/15/24 12:00
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			32864	MEM	EET NE	03/19/24 10:35 - 03/20/24 09:30 [1]
TCLP	Prep	3010A			33121	JPC	EET NE	03/26/24 15:40
TCLP	Analysis	6010D		1	33178	JPC	EET NE	03/27/24 13:47
Total/NA	Analysis	1010A		1	485688	USAE	ELLE	03/21/24 10:01 - 03/21/24 10:01 [1]
Total/NA	Prep	7.3.4			486607	USE1	ELLE	03/25/24 08:25
Total/NA	Analysis	9012		1	486903	JCG7	ELLE	03/25/24 17:06
Total/NA	Prep	7.3.4			486607	USE1	ELLE	03/25/24 08:25
Total/NA	Analysis	9034		1	486731	USE1	ELLE	03/25/24 12:45
Soluble	Leach	DI Leach			33195	ODO	EET NE	03/28/24 10:08
Soluble	Analysis	9045D		1	33213	ODO	EET NE	03/28/24 11:32
Total/NA	Analysis	9060		1	485914	P684	ELLE	03/21/24 13:08
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42
Soluble	Leach	DI Leach			33195	ODO	EET NE	03/28/24 10:08
Soluble	Analysis	SM 2510B		1	33209	ODO	EET NE	03/28/24 11:04

Client Sample ID: Comp (0-5)
Lab Sample ID: 620-17450-7

Date Collected: 03/15/24 12:00
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			32927	JAC	EET NE	03/21/24 08:36
Total/NA	Analysis	8270D		1	32951	JS	EET NE	03/21/24 15:49
Total/NA	Prep	3546			32927	JAC	EET NE	03/21/24 08:36
Total/NA	Analysis	8270D_LL_PAH		1	32952	JS	EET NE	03/21/24 15:49
Total/NA	Prep	3540C			32873	JAC	EET NE	03/19/24 14:48
Total/NA	Analysis	8082		1	32987	BMH	EET NE	03/21/24 23:56
Total/NA	Prep	3546			32878	JAC	EET NE	03/19/24 17:07
Total/NA	Analysis	8100		1	32965	JS	EET NE	03/21/24 15:35
Total/NA	Prep	3050B			33090	PRB	EET NE	03/26/24 08:24
Total/NA	Analysis	6010D		2	33178	JPC	EET NE	03/27/24 14:54
Total/NA	Prep	7471B			32865	PRB	EET NE	03/19/24 11:28
Total/NA	Analysis	7471A		1	32883	PRB	EET NE	03/19/24 15:44

Client Sample ID: Comp (5-10)
Lab Sample ID: 620-17450-8

Date Collected: 03/15/24 12:15
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			32864	MEM	EET NE	03/19/24 10:35 - 03/20/24 09:30 [1]
TCLP	Prep	3010A			33121	JPC	EET NE	03/26/24 15:40
TCLP	Analysis	6010D		1	33178	JPC	EET NE	03/27/24 13:23
Total/NA	Analysis	1010A		1	485688	USAE	ELLE	03/21/24 10:01 - 03/21/24 10:01 [1]
Total/NA	Prep	7.3.4			486607	USE1	ELLE	03/25/24 08:25
Total/NA	Analysis	9012		1	486903	JCG7	ELLE	03/25/24 17:07

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: Comp (5-10)
Lab Sample ID: 620-17450-8
Date Collected: 03/15/24 12:15
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7.3.4			486607	USE1	ELLE	03/25/24 08:25
Total/NA	Analysis	9034		1	486731	USE1	ELLE	03/25/24 12:45
Soluble	Leach	DI Leach			33195	ODO	EET NE	03/28/24 10:08
Soluble	Analysis	9045D		1	33213	ODO	EET NE	03/28/24 11:32
Total/NA	Analysis	9060		1	485914	P684	ELLE	03/21/24 13:29
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42
Soluble	Leach	DI Leach			33195	ODO	EET NE	03/28/24 10:08
Soluble	Analysis	SM 2510B		1	33209	ODO	EET NE	03/28/24 11:04

Client Sample ID: Comp (5-10)
Lab Sample ID: 620-17450-8
Date Collected: 03/15/24 12:15
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			32927	JAC	EET NE	03/21/24 08:36
Total/NA	Analysis	8270D		1	32951	JS	EET NE	03/21/24 16:14
Total/NA	Prep	3546			32927	JAC	EET NE	03/21/24 08:36
Total/NA	Analysis	8270D_LL_PAH		1	32952	JS	EET NE	03/21/24 16:14
Total/NA	Prep	3540C			32873	JAC	EET NE	03/19/24 14:48
Total/NA	Analysis	8082		1	32987	BMH	EET NE	03/22/24 00:14
Total/NA	Prep	3546			32878	JAC	EET NE	03/19/24 17:07
Total/NA	Analysis	8100		1	32965	JS	EET NE	03/21/24 15:57
Total/NA	Prep	3050B			33090	PRB	EET NE	03/26/24 08:24
Total/NA	Analysis	6010D		2	33178	JPC	EET NE	03/27/24 15:18
Total/NA	Prep	7471B			32865	PRB	EET NE	03/19/24 11:28
Total/NA	Analysis	7471A		1	32883	PRB	EET NE	03/19/24 15:46

Client Sample ID: ATC-8 (0-5)
Lab Sample ID: 620-17450-9
Date Collected: 03/14/24 10:00
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-8 (0-5)
Lab Sample ID: 620-17450-9
Date Collected: 03/14/24 10:00
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 14:40

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-8 (5-10)
Lab Sample ID: 620-17450-10
Date Collected: 03/14/24 11:50
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-8 (5-10)
Lab Sample ID: 620-17450-10
Date Collected: 03/14/24 11:50
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 15:06

Client Sample ID: ATC-7 (0-5)
Lab Sample ID: 620-17450-11
Date Collected: 03/14/24 11:10
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-7 (0-5)
Lab Sample ID: 620-17450-11
Date Collected: 03/14/24 11:10
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 15:31

Client Sample ID: ATC-7 (5-10)
Lab Sample ID: 620-17450-12
Date Collected: 03/14/24 12:10
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-7 (5-10)
Lab Sample ID: 620-17450-12
Date Collected: 03/14/24 12:10
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 15:57

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-6 (0-5)
Lab Sample ID: 620-17450-13
Date Collected: 03/14/24 12:30
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-6 (0-5)
Lab Sample ID: 620-17450-13
Date Collected: 03/14/24 12:30
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 16:24

Client Sample ID: ATC-6 (5-10)
Lab Sample ID: 620-17450-14
Date Collected: 03/14/24 12:45
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-6 (5-10)
Lab Sample ID: 620-17450-14
Date Collected: 03/14/24 12:45
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 16:50

Client Sample ID: ATC-4 (0-5)
Lab Sample ID: 620-17450-15
Date Collected: 03/14/24 13:40
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32858	MEM	EET NE	03/19/24 09:21

Client Sample ID: ATC-4 (0-5)
Lab Sample ID: 620-17450-15
Date Collected: 03/14/24 13:40
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 17:15

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-4 (5-10)
Lab Sample ID: 620-17450-16
Date Collected: 03/14/24 13:55
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32858	MEM	EET NE	03/19/24 09:21

Client Sample ID: ATC-4 (5-10)
Lab Sample ID: 620-17450-16
Date Collected: 03/14/24 13:55
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 17:41

Client Sample ID: ATC-5 (0-5)
Lab Sample ID: 620-17450-17
Date Collected: 03/14/24 14:25
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32858	MEM	EET NE	03/19/24 09:21

Client Sample ID: ATC-5 (0-5)
Lab Sample ID: 620-17450-17
Date Collected: 03/14/24 14:25
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 18:07

Client Sample ID: ATC-5 (5-10)
Lab Sample ID: 620-17450-18
Date Collected: 03/14/24 12:10
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32858	MEM	EET NE	03/19/24 09:21

Client Sample ID: ATC-5 (5-10)
Lab Sample ID: 620-17450-18
Date Collected: 03/14/24 12:10
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 18:33

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Laboratory: Eurofins New England

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6010D	3010A	Solid	Lead
6010D	3050B	Solid	Arsenic
6010D	3050B	Solid	Barium
6010D	3050B	Solid	Cadmium
6010D	3050B	Solid	Chromium
6010D	3050B	Solid	Lead
6010D	3050B	Solid	Selenium
6010D	3050B	Solid	Silver
7471A	7471B	Solid	Mercury
8082	3540C	Solid	PCB-1016
8082	3540C	Solid	PCB-1221
8082	3540C	Solid	PCB-1232
8082	3540C	Solid	PCB-1242
8082	3540C	Solid	PCB-1248
8082	3540C	Solid	PCB-1254
8082	3540C	Solid	PCB-1260
8082	3540C	Solid	PCB-1262
8082	3540C	Solid	PCB-1268
8100	3546	Solid	TEPH (C9-C36)
8260C	5035	Solid	1,1,1,2-Tetrachloroethane
8260C	5035	Solid	1,1,1-Trichloroethane
8260C	5035	Solid	1,1,2,2-Tetrachloroethane
8260C	5035	Solid	1,1,2-Trichloroethane
8260C	5035	Solid	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C	5035	Solid	1,1-Dichloroethane
8260C	5035	Solid	1,1-Dichloroethene
8260C	5035	Solid	1,1-Dichloropropene
8260C	5035	Solid	1,2,3-Trichlorobenzene
8260C	5035	Solid	1,2,3-Trichloropropane
8260C	5035	Solid	1,2,4-Trichlorobenzene
8260C	5035	Solid	1,2,4-Trimethylbenzene
8260C	5035	Solid	1,2-Dibromo-3-Chloropropane
8260C	5035	Solid	1,2-Dibromoethane (EDB)
8260C	5035	Solid	1,2-Dichlorobenzene
8260C	5035	Solid	1,2-Dichloroethane
8260C	5035	Solid	1,2-Dichloropropane
8260C	5035	Solid	1,3,5-Trichlorobenzene
8260C	5035	Solid	1,3,5-Trimethylbenzene
8260C	5035	Solid	1,3-Dichlorobenzene
8260C	5035	Solid	1,3-Dichloropropane
8260C	5035	Solid	1,3-Dichloropropene, Total
8260C	5035	Solid	1,4-Dichlorobenzene
8260C	5035	Solid	1,4-Dioxane
8260C	5035	Solid	2,2-Dichloropropane
8260C	5035	Solid	2-Butanone (MEK)

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C	5035	Solid	2-Chlorotoluene
8260C	5035	Solid	2-Hexanone (MBK)
8260C	5035	Solid	4-Chlorotoluene
8260C	5035	Solid	4-Isopropyltoluene
8260C	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260C	5035	Solid	Acetone
8260C	5035	Solid	Acrylonitrile
8260C	5035	Solid	Benzene
8260C	5035	Solid	Bromobenzene
8260C	5035	Solid	Bromochloromethane
8260C	5035	Solid	Bromodichloromethane
8260C	5035	Solid	Bromoform
8260C	5035	Solid	Bromomethane
8260C	5035	Solid	Carbon disulfide
8260C	5035	Solid	Carbon tetrachloride
8260C	5035	Solid	Chlorobenzene
8260C	5035	Solid	Chloroethane
8260C	5035	Solid	Chloroform
8260C	5035	Solid	Chloromethane
8260C	5035	Solid	cis-1,2-Dichloroethene
8260C	5035	Solid	cis-1,3-Dichloropropene
8260C	5035	Solid	Dibromochloromethane
8260C	5035	Solid	Dibromomethane
8260C	5035	Solid	Dichlorodifluoromethane (Freon 12)
8260C	5035	Solid	di-Isopropyl ether
8260C	5035	Solid	Ethanol
8260C	5035	Solid	Ethyl ether
8260C	5035	Solid	Ethyl tert-butyl ether
8260C	5035	Solid	Ethylbenzene
8260C	5035	Solid	Hexachlorobutadiene
8260C	5035	Solid	Isopropylbenzene
8260C	5035	Solid	m,p-Xylene
8260C	5035	Solid	Methyl tert-butyl ether
8260C	5035	Solid	Methylene Chloride
8260C	5035	Solid	Naphthalene
8260C	5035	Solid	n-Butylbenzene
8260C	5035	Solid	N-Propylbenzene
8260C	5035	Solid	o-Xylene
8260C	5035	Solid	sec-Butylbenzene
8260C	5035	Solid	Styrene
8260C	5035	Solid	Tert-amyl methyl ether
8260C	5035	Solid	tert-Butanol
8260C	5035	Solid	tert-Butylbenzene
8260C	5035	Solid	Tetrachloroethene
8260C	5035	Solid	Tetrahydrofuran
8260C	5035	Solid	Toluene
8260C	5035	Solid	trans-1,2-Dichloroethene

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C	5035	Solid	trans-1,3-Dichloropropene
8260C	5035	Solid	trans-1,4-Dichloro-2-butene
8260C	5035	Solid	Trichloroethene
8260C	5035	Solid	Trichlorofluoromethane (Freon 11)
8260C	5035	Solid	Vinyl chloride
8260C	5035	Solid	Xylenes, Total
8270D	3546	Solid	1,2,4,5-Tetrachlorobenzene
8270D	3546	Solid	1,2,4-Trichlorobenzene
8270D	3546	Solid	1,2-Dichlorobenzene
8270D	3546	Solid	1,3-Dichlorobenzene
8270D	3546	Solid	1,4-Dichlorobenzene
8270D	3546	Solid	2,4,5-Trichlorophenol
8270D	3546	Solid	2,4,6-Trichlorophenol
8270D	3546	Solid	2,4-Dichlorophenol
8270D	3546	Solid	2,4-Dimethylphenol
8270D	3546	Solid	2,4-Dinitrophenol
8270D	3546	Solid	2,4-Dinitrotoluene
8270D	3546	Solid	2,6-Dinitrotoluene
8270D	3546	Solid	2-Chloronaphthalene
8270D	3546	Solid	2-Chlorophenol
8270D	3546	Solid	2-Methylphenol
8270D	3546	Solid	2-Nitroaniline
8270D	3546	Solid	2-Nitrophenol
8270D	3546	Solid	3 & 4 Methylphenol
8270D	3546	Solid	3,3'-Dichlorobenzidine
8270D	3546	Solid	3-Nitroaniline
8270D	3546	Solid	4,6-Dinitro-2-methylphenol
8270D	3546	Solid	4-Bromophenyl phenyl ether
8270D	3546	Solid	4-Chloro-3-methylphenol
8270D	3546	Solid	4-Chloroaniline
8270D	3546	Solid	4-Chlorophenyl phenyl ether
8270D	3546	Solid	4-Nitroaniline
8270D	3546	Solid	4-Nitrophenol
8270D	3546	Solid	Acetophenone
8270D	3546	Solid	Aniline
8270D	3546	Solid	Azobenzene/Diphenyldiazene
8270D	3546	Solid	Benzidine
8270D	3546	Solid	Benzoic acid
8270D	3546	Solid	Benzyl alcohol
8270D	3546	Solid	bis (2-chloroisopropyl) ether
8270D	3546	Solid	Bis(2-chloroethoxy)methane
8270D	3546	Solid	Bis(2-chloroethyl)ether
8270D	3546	Solid	Bis(2-ethylhexyl) phthalate
8270D	3546	Solid	Butyl benzyl phthalate
8270D	3546	Solid	Carbazole
8270D	3546	Solid	Dibenzofuran
8270D	3546	Solid	Diethyl phthalate

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3546	Solid	Dimethyl phthalate
8270D	3546	Solid	Di-n-butyl phthalate
8270D	3546	Solid	Di-n-octyl phthalate
8270D	3546	Solid	Hexachlorobenzene
8270D	3546	Solid	Hexachlorobutadiene
8270D	3546	Solid	Hexachlorocyclopentadiene
8270D	3546	Solid	Hexachloroethane
8270D	3546	Solid	Isophorone
8270D	3546	Solid	Nitrobenzene
8270D	3546	Solid	N-Nitrosodimethylamine
8270D	3546	Solid	N-Nitrosodi-n-propylamine
8270D	3546	Solid	N-Nitrosodiphenylamine
8270D	3546	Solid	Pentachloronitrobenzene
8270D	3546	Solid	Pentachlorophenol
8270D	3546	Solid	Phenol
8270D	3546	Solid	Pyridine
8270D_LL_PAH	3546	Solid	1-Methylnaphthalene
8270D_LL_PAH	3546	Solid	2-Methylnaphthalene
8270D_LL_PAH	3546	Solid	Acenaphthene
8270D_LL_PAH	3546	Solid	Acenaphthylene
8270D_LL_PAH	3546	Solid	Anthracene
8270D_LL_PAH	3546	Solid	Benzo[a]anthracene
8270D_LL_PAH	3546	Solid	Benzo[a]pyrene
8270D_LL_PAH	3546	Solid	Benzo[b]fluoranthene
8270D_LL_PAH	3546	Solid	Benzo[g,h,i]perylene
8270D_LL_PAH	3546	Solid	Benzo[k]fluoranthene
8270D_LL_PAH	3546	Solid	Bis(2-ethylhexyl) phthalate
8270D_LL_PAH	3546	Solid	Chrysene
8270D_LL_PAH	3546	Solid	Dibenz(a,h)anthracene
8270D_LL_PAH	3546	Solid	Fluoranthene
8270D_LL_PAH	3546	Solid	Fluorene
8270D_LL_PAH	3546	Solid	Indeno[1,2,3-cd]pyrene
8270D_LL_PAH	3546	Solid	Naphthalene
8270D_LL_PAH	3546	Solid	Phenanthrene
8270D_LL_PAH	3546	Solid	Pyrene
9045D		Solid	pH
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids
SM 2510B		Solid	Specific Conductance

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24

Accreditation/Certification Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	43200	01-31-25
Alaska	State	PA00009	06-30-24
Alaska (UST)	State	17-027	02-28-25
Arizona	State	AZ0780	03-12-25
Arkansas DEQ	State	88-00660	08-09-24
California	State	2792	11-30-24
Colorado	State	PA00009	06-30-24
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-25
Delaware (DW)	State	N/A	01-31-25
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-25
Hawaii	State	N/A	01-31-25
Illinois	NELAP	200027	01-31-25
Iowa	State	361	03-01-24 *
Kansas	NELAP	E-10151	10-31-24
Kentucky (DW)	State	KY90088	12-31-24
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23 *
Louisiana (All)	NELAP	02055	06-30-24
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-24
Massachusetts	State	M-PA009	06-30-24
Michigan	State	9930	01-31-25
Minnesota	NELAP	042-999-487	12-31-24
Mississippi	State	023	01-31-25
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-25
New Hampshire	NELAP	2730	01-10-25
New Jersey	NELAP	PA011	06-30-24
New York	NELAP	10670	03-31-24
North Carolina (DW)	State	42705	07-31-24
North Carolina (WW/SW)	State	521	12-31-24
Oklahoma	NELAP	9804	08-31-24
Oregon	NELAP	PA200001	09-11-24
Pennsylvania	NELAP	36-00037	01-28-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-24
Rhode Island	State	LAO00338	12-30-24
South Carolina	State	89002	01-31-24 *
Tennessee	State	02838	01-31-25
Texas	NELAP	T104704194-23-46	08-31-24
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-24
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-24
West Virginia (DW)	State	9906 C	01-31-25
West Virginia DEP	State	055	07-31-24
Wyoming	State	8TMS-L	01-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	EET NE
8270D	Semivolatile Organic Compounds (GC/MS)	MA DEP	EET NE
8270D_LL_PAH	Semivolatile Organic Compounds (GC/MS) Low level PAH	SW846	EET NE
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
8100	Polynuclear Aromatic Hydrocarbons (PAHs) (GC)	SW846	EET NE
6010D	Metals (ICP)	SW846	EET NE
7471A	Mercury (CVAA)	SW846	EET NE
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	ELLE
9012	Cyanide, Reactive	SW846	ELLE
9034	Sulfide, Reactive	SW846	ELLE
9045D	pH	SW846	EET NE
9060	Organic Carbon, Total (TOC)	SW846	ELLE
Moisture	Percent Moisture	EPA	EET NE
SM 2510B	Conductivity, Specific Conductance	SM	EET NE
1311	TCLP Extraction	SW846	EET NE
3010A	Preparation, Total Metals	SW846	EET NE
3050B	Preparation, Metals	SW846	EET NE
3540C	Soxhlet Extraction	SW846	EET NE
3546	Microwave Extraction	SW846	EET NE
5035	Closed System Purge and Trap	SW846	EET NE
7.3.3	Cyanide, Reactive	SW846	ELLE
7.3.4	Sulfide, Reactive	SW846	ELLE
7471B	Preparation, Mercury	SW846	EET NE
DI Leach	Deionized Water Leaching Procedure	ASTM	EET NE
Frozen Preserve	Freezing Samples	None	EET NE

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
MA DEP = Massachusetts Department Of Environmental Protection
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-17450-1	ATC-3 (0-5)	Solid	03/15/24 09:10	03/18/24 15:25
620-17450-2	ATC-3 (5-10)	Solid	03/15/24 09:30	03/18/24 15:25
620-17450-3	ATC-2 (0-5)	Solid	03/15/24 10:15	03/18/24 15:25
620-17450-4	ATC-2 (5-10)	Solid	03/15/24 11:00	03/18/24 15:25
620-17450-5	ATC-1 (0-5)	Solid	03/15/24 11:20	03/18/24 15:25
620-17450-6	ATC-1 (5-10)	Solid	03/15/24 11:30	03/18/24 15:25
620-17450-7	Comp (0-5)	Solid	03/15/24 12:00	03/18/24 15:25
620-17450-8	Comp (5-10)	Solid	03/15/24 12:15	03/18/24 15:25
620-17450-9	ATC-8 (0-5)	Solid	03/14/24 10:00	03/18/24 15:25
620-17450-10	ATC-8 (5-10)	Solid	03/14/24 11:50	03/18/24 15:25
620-17450-11	ATC-7 (0-5)	Solid	03/14/24 11:10	03/18/24 15:25
620-17450-12	ATC-7 (5-10)	Solid	03/14/24 12:10	03/18/24 15:25
620-17450-13	ATC-6 (0-5)	Solid	03/14/24 12:30	03/18/24 15:25
620-17450-14	ATC-6 (5-10)	Solid	03/14/24 12:45	03/18/24 15:25
620-17450-15	ATC-4 (0-5)	Solid	03/14/24 13:40	03/18/24 15:25
620-17450-16	ATC-4 (5-10)	Solid	03/14/24 13:55	03/18/24 15:25
620-17450-17	ATC-5 (0-5)	Solid	03/14/24 14:25	03/18/24 15:25
620-17450-18	ATC-5 (5-10)	Solid	03/14/24 12:10	03/18/24 15:25

620-17450 Chain of Custody

17450

CHAIN OF CUSTODY RECORD

Page 1 of 2

Special Handling:

- ☑ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed _____

All TATs subject to laboratory approval
Min 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: Atlas Technical Consultants LLC
10 State Street, Suite 100
Woburn, MA 01801
Telephone #: 781-404-1431
Project Mgr: Stephan Landry

Invoice To: Atlas
P O No: _____ Quote #: _____

Project No: 6000007464
Site Name: Tufts Street Improvement
Location: Tuftsd St., Somerville MA State: MA
Sampler(s): Eric Marchese

F=Field Filtered 1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= Iced 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= _____ X2= _____ X3= _____

G= Grab C=Composite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	8260 Low Level	Analysis: GUC (unusual CIMS) 8270	PCB 8082	RCRA 8 Metals TCLP Pb	TPH 8100	PH & total organic cyanide	Flashpoint Conductivity	Reactivity cyanide & sulfide	Check if chlorinated
-1	ATC-3 (0-5)	3/15/24	0910	G	SO	3			1	X								☐
-2	ATC-3 (5-10)		0930						1									☐
-3	ATC-2 (0-5)		1015						1									☐
-4	ATC-2 (5-10)		1100						1									☐
-5	ATC-1 (0-5)		1120						1									☐
-6	ATC-1 (5-10)		1130						1									☐
																		☐
-7	Comp (0-5)		1200	C	SO		4				X	X	X	X	X	X	X	☐
-8	Comp (5-10)		1215	C	SO		4				X	X	X	X	X	X	X	☐
																		☐

List Preservative Code below: 7,9 | 11 | 11 | 11 | 11 | 11 | 11 | 11

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☑ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☑ No
☑ Standard ☐ No QC ☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☑ Other: MassDEP S-1
State-specific reporting standards

Relinquished by:	Received by:	Date:	Time:
Eric Marchese	Atlas Fridge	3/15/24	1500
		3/18/24	1240
		3/18/24	1828

Temp °C: Observed 4.2 | Correction Factor +0.2 | Corrected 4.4 | IR ID # 6

☑ EDD format: Stephan.Landry@oneatlas.com
☑ E-mail to: Stephan.Landry@oneatlas.com
DI Samples frozen 3/14/24 at 1500 3/15/24 at 1500

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Sample shipping address: 11 Almgren Drive • Agawam, MA 01001 • 413-789-9018 • www.EurofinsUS.com/Spectrum

Rev. Nov 2016

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4/3/2024 (Rev. 1)

17450

eurofins | Spectrum Analytical

CHAIN OF CUSTODY RECORD

Page 2 of 2

Special Handling:

- ☑ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed _____

All TATs subject to laboratory approval
Min 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: Atlas Technical Consultants LLC
10 State Street, Suite 100
Woburn, MA 01801
Telephone #: 781-404-1431
Project Mgr: Stephan Landry

Invoice To: Atlas
P O No: _____ Quote #: _____

Project No: 6000007464
Site Name: Tufts Street Improvement
Location: Tuftsd St., Somerville MA State: MA
Sampler(s): Eric Marchese

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= iced 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= _____ X2= _____ X3= _____

G= Grab C=Compsite

List Preservative Code below: 7,9

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☑ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☑ No
☑ Standard ☐ No QC ☐ DQA* ☐ ASP A* ☐ ASP B* ☐ NJ Reduced* ☐ NJ Full* ☐ Tier II* ☐ Tier IV*
☑ Other: MassDEP S-1
State-specific reporting standards

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	8260 Low Level	Check if chlorinated
-9	ATC-9 (0-5)	3-14-24	1000	G	SO	3			1	X	☐
-10	ATC-8 (5-10)		1150			1			1		☐
-11	ATC-7 (0-5)		1110			1			1		☐
-12	ATC-7 (5-10)		1210			1			1		☐
-13	ATC-6 (0-5)		1230			1			1		☐
-14	ATC-6 (5-10)		1245			1			1		☐
-15	ATC-64 (0-5)		1340			1			1		☐
-16	ATC-4 (5-10)		1355			1			1		☐
-17	ATC-5 (0-5)		1425			1			1		☐
-18	ATC 5 (5-10)		1510			1			1		☐

Relinquished by:	Received by:	Date:	Time:	Temp °C
Eric Marchese	Atlas Fridge	3/15/24	1500	Observed 4.2
Ken Fox		3/18/24	1240	Correction Factor -0.2
		3/18/24	1525	Corrected 4.4
				IR ID # 6

☑ EDD format. Stephan.Landry@oneatlas com
☑ E-mail to Stephan.Landry@oneatlas com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☑ Refrigerated ☑ DI VOA Frozen ☐ Soil Jar Frozen

4/3/2024 (Rev. 1)

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018 Fax: 413-506-3830

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-13903.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-17450-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/25/2024			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Tufts Street Improvement - Somerville, M	Project #: 62002926			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1010A/ Flashpoint	9060	9012_ReactiveCN/7.3.3	9034_Reactive/7.3.4	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
Comp (0-5) (620-17450-7)	3/15/24	12:00 Eastern		Solid			X	X	X	X	1	
Comp (5-10) (620-17450-8)	3/15/24	12:15 Eastern		Solid			X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/18/24 16:59	ECC			
2						
3					3/19/24 1055	ECC

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: Raw 1.8- COR 1.6

Ver: 06/08/2021

MB

Login Sample Receipt Checklist

Client: Atlas Technical Consultants LLC

Job Number: 620-17450-1

Login Number: 17450
List Number: 1
Creator: Scott, Krishnan F

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Atlas Technical Consultants LLC

Job Number: 620-17450-1

Login Number: 17450
List Number: 2
Creator: Ballard, Megan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 03/19/24 12:15 PM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

Massachusetts Department of Environmental Protection

eDEP Transaction Copy

Here is the file you requested for your records.

To retain a copy of this file you must save and/or print.

Username:	**MGITTEN**
Transaction ID:	**1896047**
Document:	**BWSC126 Miscellaneous Document Transmittal Form**
Size of File:	**161.13K**
Status of Transaction:	**In Process**
Date and Time Created:	**5/14/2025:1:54:06 PM**

Note: This file only includes forms that were part of your transaction as of the date and time indicated above. If you need a more current copy of your transaction, return to eDEP and select to “Download a Copy” from the Current Submittals page.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

Miscellaneous Document Transmittal Form

BWSC 126

Release Tracking Number
3 - 51811

A. DISPOSAL SITE LOCATION:

1. Disposal Site Name: URAM
2. Street Address: 50 TUFTS STREET
3. City/Town: SOMERVILLE 4. Zip Code: 021450000

B. THIS FORM IS BEING USED TO: (check all that apply)

☐ 1. Correct typographical errors and/or make corrections that do not materially affect the nature or complexity of the response actions. If changes are materially significant, then a revised or modified submittal must be made to the Department. List the report/form that is being corrected that is associated with the above Release Tracking Number (RTN). Attach an errata sheet containing a description of the errors and/or corrections.

Form/Report | Submittal Date(mm/dd/yyyy) | Transaction ID

_____ _____ _____

☐ 2. Submit other documents associated with this RTN that cannot be submitted to the Department using any other BWSC transmittal form. Do not submit documents that are of a time-critical nature and/or that require a direct response from the Department and/or that require an LSP Opinion pursuant to 310 CMR 40.0015. (Section C is not required).

Description of Submittal _____

☐ 3. Resign as LSP-of-Record for the above Release Tracking Number (RTN). Attach a copy of the LSP resignation letter. (Section D, E, and F are not required).

☐ 4. Submit copies of Public Notices required pursuant to 310 CMR 40.1400: (check all that apply)
(Section C is not required)

- ☐ a. Tier I Classification — ☐ Check here if submitting a copy of a legal notice
- ☐ b. Tier II Classification — ☐ Check here if submitting a copy of a legal notice
- ☐ c. Immediate Response Action (IRA)
- ☐ d. Release Abatement Measure (RAM)
- ☐ e. Downgradient Property Status (DPS)
- ☐ f. Utility-related Abatement Measure (URAM)
- ☐ g. Comprehensive Response Actions
- ☐ h. Activities related to recording/registering an Activity and Use Limitation (AUL) — ☐ Check here if submitting a copy of a legal notice
- ☐ i. Permanent or Temporary Solution

DRAFT COPY

(All sections of this transmittal form must be filled out unless otherwise noted)

B. THIS FORM IS BEING USED TO(cont.): (check all that apply)

☐ 5. Submit Public Involvement Petition documents. (check all that apply). (Section C is not required).

- ☐ a. Submit a Public Involvement Petition
- ☐ b. Submit a Public Involvement Petition Retraction
- ☐ c. Submit a Positive Public Involvement Petition Designation Letter
- ☐ d. Submit a Negative Public Involvement Designation Letter
- ☐ e. Submit a Draft Public Involvement Petition Plan
- ☐ f. Submit a Revised Public Involvement Petition Plan
- ☐ g. Submit a Final Public Involvement Petition Plan
- ☐ h. Submit a Notice of Public Comment Period

  Date of Close of Comment Period : _____ (mm/dd/yyyy)
- ☐ i. Submit a copy of a Public Involvement Petition legal notice
- ☐ j. Submit a Notice of Public Meeting

  Meeting Date: _____ (mm/dd/yyyy)
- ☐ k. Submit one Public Involvement Petition related documents not specified above:

  Describe: _____

DRAFT COPY

☑ 6. Submit a RCRA Contained-In Determination document that soil and/or groundwater is no longer considered a hazardous waste pursuant to state (310 CMR 30.00) and federal (Title 40, Chapter I, Part 261 of the Code of Federal Regulations) hazardous waste regulations.

☐ 7. Submit notification and documentation of Reclamation Soil Reuse pursuant to 310 CMR 40.0031(2).

C. LSP SIGNATURE:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #: 7505
2. First Name: MICHAEL S 3. Last Name: GITTEN
4. Telephone: 7814041439 5. Ext.: _____ 6. Email: michael.gitten@oneatlas.com
7. Signature: _____
8. Date: _____ (mm/dd/yyyy)

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

Miscellaneous Document Transmittal Form

BWSC 126

Release Tracking Number
3 - 51811

D. PERSON MAKING A SUBMITTAL:

1. Check all that apply: ☐ a. Change in contact name ☐ b. Change of address ☐ c. Change in person undertaking response actions

2. Name of Organization: CITY OF SOMERVILLE

3. Contact First Name: COLIN 4. Last Name: ZEIGLER

5. Street: 1 FRANEY RD 6. Title: ENVIRONMENTAL HEALTH COORDINATOR

7. City/Town: SOMERVILLE 8. State: MA 9. ZIP Code: 021450000

10. Telephone: 6176256600 11. Ext.: 12. Email: czeigler@somervillema.gov

☐ 13. Check here if the person is a Public Involvement Petitioner

E. RELATIONSHIP TO SITE OF PERSON MAKING SUBMITTAL:

☑ Check here to change relationship

☐ 1. RP or PRP ☐ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter ☐ e. Other RP or PRP Specify:

☐ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c.21E, s.2)

☑ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c.21E, s.5(j))

☐ 4. Any Other Person Undertaking Response Actions Specify Relationship:

F. CERTIFICATION OF PERSON MAKING SUBMITTAL:

DRAFT COPY

1. I, _____, st under the pains and penalties or perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: _____ 3. Title: ENVIRONMENTAL HEALTH COORDINATOR
Signature

4. For: CITY OF SOMERVILLE 5. Date:
(Name of person or entity recorded in Section D) mm/dd/yyyy

☐ 6. Check here if the address of the person providing certification is different from address recorded in Section D.

7. Street:

8. City/Town: 9. State: 10. ZIP Code:

11. Telephone: 12. Ext.: 13. Email:

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

Miscellaneous Document Transmittal Form

BWSC 126

Release Tracking Number
3 - 51811

☐ Check here if any non-updatable information provided on this form is incorrect, e. g. property address. Send corrections to BWSC.eDEP@state.ma.us

YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY):

DRAFT COPY

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC 119

Release Tracking Number
3 - 51811

UTILITY-RELATED ABATEMENT MEASURE (URAM) TRANSMITTAL FORM

Pursuant to 310 CMR 40.0462 - 0465 (Subpart D)

A.SITE LOCATION:

1.Site Name/Location Aid: URAM

2.Street Address: 50 TUFTS STREET

3.City/Town: SOMERVILLE 4.ZIP Code: 02145

☑ 5.Check here if the disposal site that is the source of the release is Tier Classified. Check the current Tier Classification Category.

☐ a.Tier I ☐ b.Tier ID ☑ c.Tier II

☐ 6. Check here if the disposal site that is the source of the release has achieved a Permanent Solution Statement. Add check boxes:

☐ a. Permanent Solution without Conditions ☐ b. Permanent Solution with Conditions (no AUL)

☐ c. Permanent Solutions with Conditions (with an AUL)

B.THIS FORM IS BEING USED TO: (check all that apply)

☑ 1. Provide confirmation on an oral **Utility-related Abatement Measure (URAM) Notification.** (Sections D & E are not required)

☑ a. Provide Date of Oral Notification.

b. 5/9/2025
(mm/dd/yyyy)

Is the URAM limited to the excavation and/or handling of not more than 100 cubic yards of soil contaminated by Oil, or not more than 20 cubic yards of soil contaminated either by a Hazardous Material or a mixture of a Hazardous Material and Oil?

☐ c.Yes ☑ d.No ☐ No, provide LSP Name and License Number:i.LSP #: 7505

ii.First Name: MICHAEL S iii.Last Name: GITTEN

☐ 2.Submit a **URAM Status Report**.

☐ 3.Submit a **Remedial Monitoring Report**, as Form BWSC119A. (This report can only be submitted through eDEP, concurrent with a URAM Status Report.)

a.Type of Report: (check one) ☐ i.Initial Report ☐ ii.Interim Report ☐ iii.Final Report

b.Number of Remedial Systems and/or Monitoring Programs: _____
A separate BWSC119A, URAM Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program addressed by this transmittal form.

☐ 4.Submit a **URAM Completion Statement.**

Is the URAM limited to the excavation and/or handling of not more than 100 cubic yards of soil contaminated by Oil, or not more than 20 cubic yards of soil contaminated either by a Hazardous Material or a mixture of a Hazardous Material and Oil?

☐ a.Yes, Section E is not required ☐ b.No

DRAFT COPY

UTILITY-RELATED ABATEMENT MEASURE (URAM) TRANSMITTAL FORM

Pursuant to 310 CMR 40.0462 - 0465 (Subpart D)

B.THIS FORM IS BEING USED TO: (cont.)

☐ 5.Submit a **Revised URAM Completion Statement.**

Is the URAM limited to the excavation and/or handling of not more than 100 cubic yards of soil contaminated by Oil, or not more than 20 cubic yards of soil contaminated either by a Hazardous Material or a mixture of a Hazardous Material and Oil?

☐ a.Yes, Section E is not required ☐ b.No

(All sections of this transmittal form must be filled out unless otherwise noted above)

C.RELEASE OR THREAT OF RELEASE CONDITIONS THAT WARRANT URAM:

1.Identify Location Type: (check all that apply) ☑ a.Public Right of Way ☐ b.Utility Easement ☐ c.Private Property

2.Identify Utility Type: (check all that apply) ☑ a.Drainage ☐ b.Electric ☐ c.Natural Gas

☐ d.Sanitary/Combined Sewerage ☐ e.Steam Lines ☐ f.Telecommunications ☐ g.Telephone

☐ h.Water ☐ i.Other Specify: _____

3.Source of the Release or Thread of Release (TOR): (check all that apply) ☐ a.Transformer ☐ b.Fuel Tank ☐ c.Pipe

☐ d.OHM Delivery ☐ e.AST ☐ f.Drums ☐ g.Tanker Truck ☐ h.Hose ☐ i.Line

☐ j.UST Describe: ☐ k.Vehicle ☐ l.Boat/Vessel

☐ m.Unknown ☑ n.Other: HISTORIC CHEMICAL STORAGE

4.Identify Oils and Hazardous Materials Released: (check all that apply)

☐ a.Oils ☑ b.Chlorinated Solvents ☐ c.Heavy Metals

☐ d.OthersSpecify:

D.DESCRIPTION OF RESPONSE ACTIONS:(check all that apply, for volumes, cumulative amounts)

☐ 1.Assessment and/or Monitoring Only
☐ 2.Temporary Cover or Caps
☐ 3.Deployment of Absorbent or Containment Materials
☐ 4.Temporary Water Supplies
☐ 5.Structure Venting System
☐ 6.Temporary Evacuation or Relocation of Residents
☐ 7.Product or NAPL Recovery
☐ 8.Fencing and Sign Posting
☐ 9.Groundwater Treatment Systems
☐ 10.Soil Vapor Extraction
☐ 11.Bioremediation
☐ 12.Air Sparging

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D.DESCRIPTION OF RESPONSE ACTIONS (cont.):(check all that apply, for volumes list cumulative amounts)

☐ 13.Excavation of Contaminated Soils

☐ a.Re-use, Recycling or Treatment ☐ i.On Site Estimated volume in cubic yards 540

☐ ii.Off Site Estimated volume in cubic yards 420

iia.Receiving Facility: _____ Town: _____ State: _____

iib.Receiving Facility: _____ Town: _____ State: _____

iii.Describe: _____

☐ b.Store ☐ i.On Site Estimated volume in cubic yards _____

☐ ii.Off Site Estimated volume in cubic yards _____

iia.Receiving Facility: _____ Town: _____ State: _____

iib.Receiving Facility: _____ Town: _____ State: _____

☐ c.Landfill

☐ i.Cover Estimated volume in cubic yards _____

Receiving Facility: _____ Town: _____ State: _____

☐ ii.Disposal Estimated volume in cubic yards _____

Receiving Facility: _____ Town: _____ State: _____

☐ 14.Removal of Drums, Tanks or Containers:

a.Describe Quantity and Amount:

b.Receiving Facility: _____ Town: _____ State: _____

c.Receiving Facility: _____ Town: _____ State: _____

☐ 15.Removal of Other Contaminated Media:

a.Specify Type and Volume:

b.Receiving Facility: _____ Town: _____ State: _____

c.Receiving Facility: _____ Town: _____ State: _____

☐ 16.Other Response Actions:

Describe:

☐ 17.Use of Innovative Technologies:

Describe:

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E.LSP SIGNATURE AND STAMP:
I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal.In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> *if Section B of this form indicates that a* ***Utility-Related Abatement Measure Status Report*** *and/or a* ***Remedial Monitoring Report*** *is being submitted*, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B of this form indicates that a* ***Utility-Related Abatement Measure Completion Statement*** *is being submitted*, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) comply (ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1.LSP #:
2.First Name: 3.Last Name:
4.Telephone: 5.Ext.: 6.Email: michael.gitten@oneatlas.com
7.Signature:
8.Date: (mm/dd/yyyy) 9.LSP Stamp:

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UTILITY-RELATED ABATEMENT MEASURE (URAM) TRANSMITTAL FORM

Pursuant to 310 CMR 40.0462 - 0465 (Subpart D)

F.PERSON UNDERTAKING URAM:

1.Check all that apply: ☐ a.change in contact name ☐ b.change of address ☐ c.change in the person undertaking response actions

2.Name of Organization: CITY OF SOMERVILLE

3.Contact First Name: COLIN 4.Last Name: ZEIGLER

5.Street: 1 FRANEY RD 6.Title: ENVIRONMENTAL HEALTH COORDINATOR

7.City/Town: SOMERVILLE 8.State: MA 9.ZIP Code: 021450000

10.Telephone: 6176256600 11.Ext.: 12.Email: czeigler@somervillema.gov

G.RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON UNDERTAKING URAM:

☑ Check here to change relationship

☐ 1.RP or PRP ☐ a.Owner ☐ b.Operator ☐ c.Generator ☐ d.Transporter

☐ e.Other RP or PRP Specify:

☐ 2.Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

☑ 3.Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

☐ 4.Any Other Person Undertaking URAM Specify Relationship:

H.REQUIRED ATTACHMENT AND SUBMITTALS:

☐ 1.Check here if any Remediation Waste, generated as a result of this URAM, will be stored, treated, managed, recycled or reused at the site following submission of the URAM Completion Statement. If this box is checked, you must submit one of the following plans, along with the appropriate transmittal form.

☐ a.A Release Abatement Measure (RAM) Plan (BWSC106) ☐ b.Phase IV Remedy Implementation Plan (BWSC108)

☐ 2.Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

☐ 3.Check here if the property owner was NOT contacted prior to initiation of the URAM. If this is the case, you must attach an explanation of why the owner was not contacted, including the date and time when contact ultimately occurred.

☐ 4.Check here if this URAM will occur in connection with the construction of new public utilities. If this is the case, document the nature and extent of encountered contamination, the scope and expense of necessary mitigation and the benefits and limitations of project alternatives.

☐ 5.Check here if any non-updatable information provided on this form is incorrect, e.g. Release Address/Location Aid. Send corrections to BWSC.eDEP@Mass.Gov.

☐ 6.Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

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UTILITY-RELATED ABATEMENT MEASURE (URAM) TRANSMITTAL FORM

Pursuant to 310 CMR 40.0462 - 0465 (Subpart D)

I.CERTIFICATION OF PERSON UNDERTAKING URAM:

1.I, _____ , attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2.By: _____ (Signature)

3.Title: ENVIRONMENTAL HEALTH COORDINATOR

4.For: CITY OF SOMERVILLE (Name of person or entity recorded in Section F)

5.Date: _____ (mm/dd/yyyy)

☐ 6.Check here if the address of the person providing certification is different from address recorded in Section F.

7.Street: _____

8.City/Town: _____ 9.State: _____ 10.ZIP Code: _____

11.Telephone: _____ 12.Ext.: _____ 13.Email: _____

YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)

DRAFT COPY

10 State Street, Suite 100
Woburn, MA 01801
781.932.9400 | oneatlas.com

July 10, 2025

Massachusetts Department of Environmental Protection *via: eDEP*
Bureau of Waste Site Cleanup
15 Presidential Way
Woburn, Massachusetts

SUBJECT: Contained-In Determination
Soil from Tufts Street Right-of-Way Improvements
Somerville, MA
RTN 3-51811
Atlas Project No.: 6000007464

Dear Program Manager:

Atlas Technical Consultants LLC (Atlas) has been retained by the City of Somerville to provide Massachusetts Contingency Plan (310 CMR 40.0000) (MCP) and related Licensed Site Professional (LSP) services to support the Tufts Street Improvement Project.

Background

On behalf of the City of Somerville, I have made a "contained-in" determination (CID) following the approach presented in the Massachusetts Department of Environmental Protection's (MassDEP) Technical Update, Considerations for Managing Contaminated Soil: RCRA Land Disposal Restrictions and Contained-In Determination (2010) regarding soil from a portion of the following M.G.L. c. 21E disposal site:

Release Tracking Number:	3-51811
Site Name:	Tufts Street Right-of-Way Improvements
Street Address:	Tufts Street right-of-way from Cross Street to Washington Street
City/Town:	Somerville, MA
Zip Code:	02145

The soil contained the listed hazardous waste(s) with Waste Codes U043, U210 and U228, which MassDEP is authorized to regulate under the Resource Conservation and Recovery Act (RCRA) by the U.S. Environmental Protection Agency (USEPA). However, the soil (check one):

☒ Met all applicable S-1 standards upon removal*; or
☐ Was treated through a method of treatment other than dilution so as to meet all applicable S-1 standards.

*The soil noted herein has been pre-characterized in-situ and has been determined to meet applicable S-1 standards.

Soil Characterization

The ATC series samples in the table below present the levels of the listed hazardous waste constituents in the soils to be handled during this project. The 50Tuft-B series data are not from the soils to be managed under this CID but are within 5 feet of the CID area and are included for reference to document the extent of the hazardous waste constituents covered by this CID. Note that the area around 50Tuft-B-103 data point is not included in this CID.

Summary of Detected Listed Waste within Contained-In Determination Area						
Sample Name / Depth	Sample Date	Substance/CAS # / Waste Code	Results (ppm)	MCP Method 1S-1 Standards		
				S-1 Soil & GW-1	S-1 Soil & GW-2	S-1 Soil & GW-3
ATC-101, 0.6-3.0'	6/26/2025	Tetrachloroethylene (PCE) / 127-18-4 / U210	0.00651	1 ppm	4 ppm	100 ppm
ATC-110, 0.3-3.0'	6/26/2025		0.0241			
ATC-8, 5-10'	3/14/24		0.134			
50Tuft-B101, 0-1'	2/12/24		0.0023			
50Tuft-B101,3-5'	2/12/24		0.015			
50Tuft-B102, 0-1'	2/12/24		0.00048			
50Tuft-B102, 1-3'	2/12/24		0.001			
50Tuft-B104, 0-1'	2/12/24		0.023			
50Tuft-B104, 1-3'	2/12/24		0.015			
50Tuft-B105, 0-1'	2/12/24		0.81			
50Tuft-B105, 1-3'	2/12/24		0.01			
50Tuft-B102, 1-3'	2/12/24	Trichloroethene (TCE) / 79-01-06 / U228	0.00037	0.3	0.3	30
50Tuft-B105, 0-1'	2/12/24	Vinyl Chloride / 75-01-04 / U043	0.053	0.3	0.3	0.3

The City of Somerville Tufts Street Improvement Project is to implement traffic calming and accessibility improvements that will reconstruct sidewalks, install new raised stormwater inlets drains to improve the existing stormwater management system, and repave Tufts Street between Cross Street and Washington Street as part of the City's Pavement and Sidewalk Management Program. Most excavations will be limited to 2.5 feet below grade with some excavations for drainage structure connections / rehabilitations extending to 4.5 feet below grade. Sidewalk work will typically be limited to 1 foot below current grade and roadway work to 1.5 feet below grade. Groundwater has been observed to range from approximately 7 to 13 feet below grade in the majority of the area where excavation will occur. To the extent practicable, soil will be reused in the area from which it was excavated. The limit of work is shown on attached **Figures 1 and 2.**

Most work is located within a Disposal Site listed by the MassDEP under Release Tracking Number (RTN) 3-23246. **Figure 1** shows the northern extent of the Disposal Site as it relates to limits of work and all the proposed work shown on **Figure 2** is within the Disposal Site. This Disposal Site is associated with a release of the Hazardous Substance tetrachloroethylene, also known as perchloroethylene (PCE), to soil and groundwater from a former drycleaner facility located at the abutting 50 Tufts Street property. As summarized below, based upon a review of reports submitted to MassDEP for RTN 3-23246 Atlas concludes that the Hazardous Substances

trichloroethene and vinyl chloride have also impacted soil within the Disposal Site and the Disposal Site extends from just below the pavement surface to at least 10 feet below grade.

On March 14 and 15, 2024, Atlas supervised the installation of 8 soil borings identified as ATC-1 to ATC-8 for sampling and laboratory analyses of soil to conduct in-situ pre-characterization of soil within the Tufts Street right-of-way. Locations were selected to reflect areas where soil excavation was proposed to support planned work. Soil borings ATC-4 to ATC-8 are located within the Disposal Site. Soil boring ATC-3 is located at the approximate northeast edge of the Disposal Site and borings ATC-1 and ATC-2 are located outside the Disposal Site. Two soil samples from each boring, for a total of sixteen (16) soil samples, were collected. At each boring location, a discrete soil sample was collected with a hand auger during preclearing from 0 to 5 feet below grade and with a dedicated acetate liners via Geoprobe drill rig from 5 to 10 feet below grade surface.

Two sets of composite soil samples were collected from the 8 soil borings. One set (ATC-1 to ATC-8 Composite 0-5') was from the 0 to 5 feet below grade interval and the other set (ATC-1 to ATC-8 Composite 5-10') was from 5 to 10 foot below surface interval. These samples were placed in laboratory provided containers and submitted to Eurofins laboratory under a chain-of-custody for the following analyses typically required by soil management facilities:

- Semi-volatile organic compounds with low level PAHs (SIMS) by EPA Method 8270;
- PCBs by EPA Method 8082;
- RCRA 8 Metals; TCLP lead;
- Total Petroleum Hydrocarbons by 8100; and
- Corrosivity; Total Organic Carbon; Flashpoint; Reactivity Cyanide and Sulfide; and Conductivity.

On June 26, 2025, Atlas supervised the installation of 10 soil borings identified as ATC-101 to ATC-110 for sampling and laboratory analyses of soil within the Tufts Street right-of-way. Locations were selected to reflect areas where the deepest soil excavation was proposed within the Disposal Site and to provide more data density. One soil sample was collected from each boring, for a total of ten (10) soil samples. At each boring location, a discrete soil sample was collected by hand auger from the base of concrete or pavement to 0.5 feet below the anticipated excavation depth at that location. Sample depths are shown on the attached soil data summary table. Soil sample locations are shown on **Figures 1 and 2.**

During both sampling events, soil samples were screened for total volatile organic compounds (VOCs), i.e., headspace, with a pre-calibrated photoionization detector (PID) in accordance with the MassDEP jar headspace method. PID levels were all below 0.5 parts per million volume/volume (ppmv/v). The soil samples were placed in laboratory provided containers and submitted to Eurofins laboratory under a chain of custody and analyzed for low level volatile organic compounds (VOCs) by EPA Method 8260.

Historical Data Review

Atlas reviewed previous submittals and associated soil data made to the MassDEP for the following RTNs associated with 50 Tufts Street or in the immediate area for data relevant to this CID:

- RTNs 3-23246 / 3-24358 / 3-26114 / 3-35528 for 50 Tufts Street;
- RTNs 3-28231 / 3-30620 associated with MBTA/Green Line Extension work in the area;
- RTN 3-37468 for 31 Tufts Street associated with impacts from 50 Tufts Street; and
- RTN 3-14792 for 60 Tufts Street associated with asbestos only.

Relevant data from soil samples collected near the Tufts Street right-of-way are included on **Table 1** and the summary table above. Due to the age of the original VOC release associated with 50 Tufts Street, completed and ongoing remediation and/or Exposure Pathway Mitigation Measures (EPMM) at 23, 27, 31, 50, and 60 Tufts Street as well as 121 Washington Street, soil data more than 10 years old is not considered representative of current site conditions and was not included in the data summary tables. EPMMs include Active Exposure Pathway Mitigation Measures (AEPMM) and passive sub slab venting systems. Furthermore, data was excluded if it was from more than 10 feet below grade or there was more recent data available between it and the right-of-way.

Based upon the above, the only relevant soil data for this CID was found in the Phase V Status Report No. 26 and Remedial Monitoring Report No. 41, 50 Tufts Street (GEI Consultants, Inc., August 2024). This submittal documents how on February 12, 2024, GEI collected shallow soil samples to the northwest and southeast of the 50 Tufts Street building, adjacent to the street improvement work zone from 5 soil borings (B101 to B105) advanced up to 5 feet below grade. These soil boring locations are shown on **Figures 1 and 2**. PCE, TCE, and/or vinyl chloride were detected in B101, B102, B104, and B105 below all their Method 1 Soil Standards. These locations are within 5 feet of the CID petition area, and support the information presented herein.

Soil data collected from B103 0-1' and B103 1-3' exhibit concentrations of PCE above Method 1 Standards. The soils surrounding the B103 boring location are excluded from this CID petition as shown on **Figure 2**.

Conclusions

The area included in this CID petition includes the soils outlined below, limited to the identified "work area" within the Disposal Site boundary for RTN 3-23246, as shown on **Figure 1** and **Figure 2**:

- Roadway pavement areas - Soils from below existing asphalt pavement to 1.5 feet below grade.
- Sidewalk pavement areas – Soils from below existing asphalt and concrete pavement to 1 foot below grade
- Proposed landscaped areas and trees – Soils to 2.5-feet below existing grade
- Proposed drainage structures – Soils from below existing asphalt and concrete to 3, 4, or 4.5 feet below existing grade as shown on **Figure 1** and **Figure 2**
- Proposed Drainage piping – Soils from below existing asphalt and concrete to 3 feet below existing grade.

It is estimated that the above work will lead to approximately 1,500 cubic yards being excavated with an estimated 300 cubic yards of this amount being asphalt/concrete. Most excavated soil will be reused. It is estimated that approximately 375 cubic yards of soil will require offsite management from the area represented by the soil data presented herein and covered by this CID.

The soil analytical results were non-detect for all VOCs in 23 of 26 samples collected within the CID area. PCE was detected in ATC-8, ATC-101, and ATC-110 at concentrations well below the MCP Method 1 S-1/GW-1 standard of 1.0 milligrams per kilogram (mg/kg). TCE and vinyl chloride were not detected in any of the samples from within the work zone collected by Atlas. They were observed in the samples collected near the work zone by GEI well below their MCP Method 1 S-1/GW-1 standard of 0.3 mg/kg The soil analyses do not exhibit any hazardous waste characteristics pursuant to 310 CMR 30.120. All detected compounds reported were below their MCP Method 1 Standards as were the detection limits for those compounds not detected. A summary of VOC soil data is presented in attached **Table 1**. The associated laboratory reports are attached.

A summary of VOC soil data collected by Atlas and collected by others and identified as relevant to this CID is presented in attached **Table 1** and included in the table above. The associated data summary table, figure and laboratory report from GEI's 2024 report previously submitted to MassDEP is also attached.

The soil management activities associated with this CID Petition will be conducted as a Utility-related Release Abatement Measure (URAM) under **RTN 3-51811.** The contract documents for the work estimate that up to 520 tons (approximately 375 cubic yards) of soil will require offsite management from the area represented by the soil data presented herein and covered by this CID. As noted above, most excess soil will come from less than 2.5 feet below grade with limited areas where stormwater catch basins are being replaced extending to 4.5 feet below grade.

I understand that this "contained-in" determination is subject to a 21-day period during which the determination is subject to review by the MassDEP and that the soil cannot be managed as non-hazardous waste until the 21-day review period passes without objection from MassDEP or USEPA. A copy of the validated and unsigned BWSC-126 Miscellaneous Document Transmittal Form submitted concurrently with this CID is **Attached**.

I also understand that if the soil is to be transported out-of-state, it must first be determined if the operator of the landfill or other receiving facility and the relevant state agency (or the relevant USEPA region, if the state does

not administer the RCRA program) are willing to accept contained-in determinations performed by a Massachusetts Licensed Site Professional. In doing so, the process by which "contained-in" determinations are performed in Massachusetts will be explained to the relevant parties and proper documentation of all conversations will be retained.

I, Michael Gitten, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this submittal, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the person or entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate or incomplete information.

Respectfully submitted,
ATLAS

By: 7/10/2025
Signature Date

LSP #: 7505
LSP Name: Michael Gitten, LSP
Telephone: 781-404-1439

For: City of Somerville
Rebecca Wright

Attachments: Figure 1 - Northwestern Project Extent
Figure 2 - Southeastern Project Extent
Table 1 - Soil Analytical Data Summary
Laboratory Analytical Data Reports – Atlas
Supporting Information from RTN 3-23246
Validated/Unsigned BWSC-126

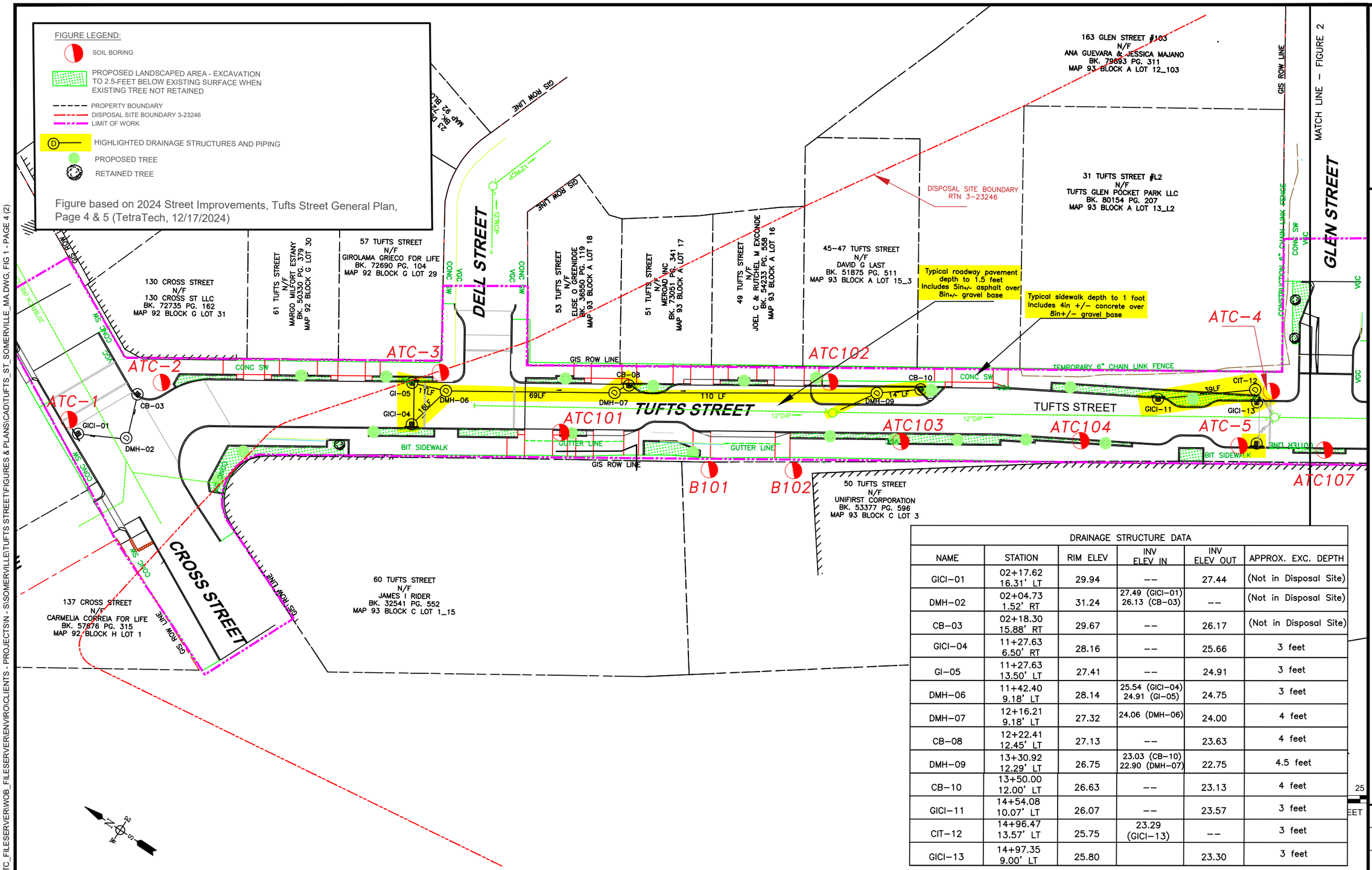
Cc: Rebecca Wright, Somerville rwright@somervillema.gov

File: cid petition-somerville-tufts st improvements

FIGURE LEGEND:

- SOIL BORING
- PROPOSED LANDSCAPED AREA - EXCAVATION TO 2.5-FEET BELOW EXISTING SURFACE WHEN EXISTING TREE NOT RETAINED
- PROPERTY BOUNDARY
- DISPOSAL SITE BOUNDARY 3-23246
- LIMIT OF WORK
- HIGHLIGHTED DRAINAGE STRUCTURES AND PIPING
- PROPOSED TREE
- RETAINED TREE

Figure based on 2024 Street Improvements, Tufts Street General Plan, Page 4 & 5 (TetraTech, 12/17/2024)


DEL STREET
GLEN STREET
TUFTS STREET
CROSS STREET
GIS ROW LINE
CONC SW
VGC
BIT SIDEWALK
GUTTER LINE
TEMPORARY 6" CHAIN LINK FENCE
CONSTRUCTION 6" CHAIN LINK FENCE
DISPOSAL SITE BOUNDARY RTN 3-23246
Typical roadway pavement depth to 1.5 feet Includes 5in+/- asphalt over 8in+/- gravel base
Typical sidewalk depth to 1 foot Includes 4in +/- concrete over 8in+/- gravel base
MATCH LINE - FIGURE 2
ATC-1
ATC-2
ATC-3
ATC-4
ATC-5
ATC101
ATC102
ATC103
ATC104
ATC107
B101
B102
CB-03
CB-08
CB-10
DMH-02
DMH-06
DMH-07
DMH-09
GICI-01
GICI-04
GICI-11
GICI-13
GI-05
CIT-12
69LF
110 LF
14 LF
39LF
16LF
11LF
12"DIP
130 CROSS STREET N/F 130 CROSS ST LLC BK. 72735 PG. 162 MAP 92 BLOCK G LOT 31
61 TUFTS STREET N/F MARGO MILFORT ESTANY BK. 50330 PG. 379 MAP 92 BLOCK G LOT 30
57 TUFTS STREET N/F GIROLAMA GRIECO FOR LIFE BK. 72690 PG. 104 MAP 92 BLOCK G LOT 29
53 TUFTS STREET N/F ELISE O GREENIDGE BK. 36550 PG. 119 MAP 93 BLOCK A LOT 18
51 TUFTS STREET N/F MEROAD INC BK. 73051 PG. 341 MAP 93 BLOCK A LOT 17
49 TUFTS STREET N/F JOEL C. & RUTCHEL M EXCONDE BK. 54233 PG. 558 MAP 93 BLOCK A LOT 16
45-47 TUFTS STREET N/F DAVID G LAST BK. 51875 PG. 511 MAP 93 BLOCK A LOT 15_3
163 GLEN STREET #103 N/F ANA GUEVARA & JESSICA MAJANO BK. 79893 PG. 311 MAP 93 BLOCK A LOT 12_103
31 TUFTS STREET #L2 N/F TUFTS GLEN POCKET PARK LLC BK. 80154 PG. 207 MAP 93 BLOCK A LOT 13_L2
50 TUFTS STREET N/F UNIFIRST CORPORATION BK. 53377 PG. 596 MAP 93 BLOCK C LOT 3
60 TUFTS STREET N/F JAMES I RIDER BK. 32541 PG. 552 MAP 93 BLOCK C LOT 1_15
137 CROSS STREET N/F CARMELIA CORREIA FOR LIFE BK. 57876 PG. 315 MAP 92 BLOCK H LOT 1
12"RCP
20"RCP
24"RCP
GAS LINE

DRAINAGE STRUCTURE DATA

NAME	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	APPROX. EXC. DEPTH
GICI-01	02+17.62 16.31' LT	29.94	--	27.44	(Not in Disposal Site)
DMH-02	02+04.73 1.52' RT	31.24	27.49 (GICI-01) 26.13 (CB-03)	--	(Not in Disposal Site)
CB-03	02+18.30 15.88' RT	29.67	--	26.17	(Not in Disposal Site)
GICI-04	11+27.63 6.50' RT	28.16	--	25.66	3 feet
GI-05	11+27.63 13.50' LT	27.41	--	24.91	3 feet
DMH-06	11+42.40 9.18' LT	28.14	25.54 (GICI-04) 24.91 (GI-05)	24.75	3 feet
DMH-07	12+16.21 9.18' LT	27.32	24.06 (DMH-06)	24.00	4 feet
CB-08	12+22.41 12.45' LT	27.13	--	23.63	4 feet
DMH-09	13+30.92 12.29' LT	26.75	23.03 (CB-10) 22.90 (DMH-07)	22.75	4.5 feet
CB-10	13+50.00 12.00' LT	26.63	--	23.13	4 feet
GICI-11	14+54.08 10.07' LT	26.07	--	23.57	3 feet
CIT-12	14+96.47 13.57' LT	25.75	23.29 (GICI-13)	--	3 feet
GICI-13	14+97.35 9.00' LT	25.80		23.30	3 feet

NOTE:
ALL STRUCTURES WITHIN DISPOSAL SITE BOUNDARY SHALL USE SEWER DRAIN PIPE FOR WATER TIGHT SEAL, OR DUCTILE IRON PIPE WITH RUBBER GASKETS.

DRAINAGE STRUCTURE DEPTHS CALCULATED USING DIFFERENCE BETWEEN RIM ELEVATION AND INLET/OUTLET ELEVATION, PLUS 0.5 FEET.

25 0 25 50
SCALE IN FEET

Contained In Determination Petition
Northwestern Project Extent
City of Somerville
Tufts Street Right of Way Improvments
Somerville, MA

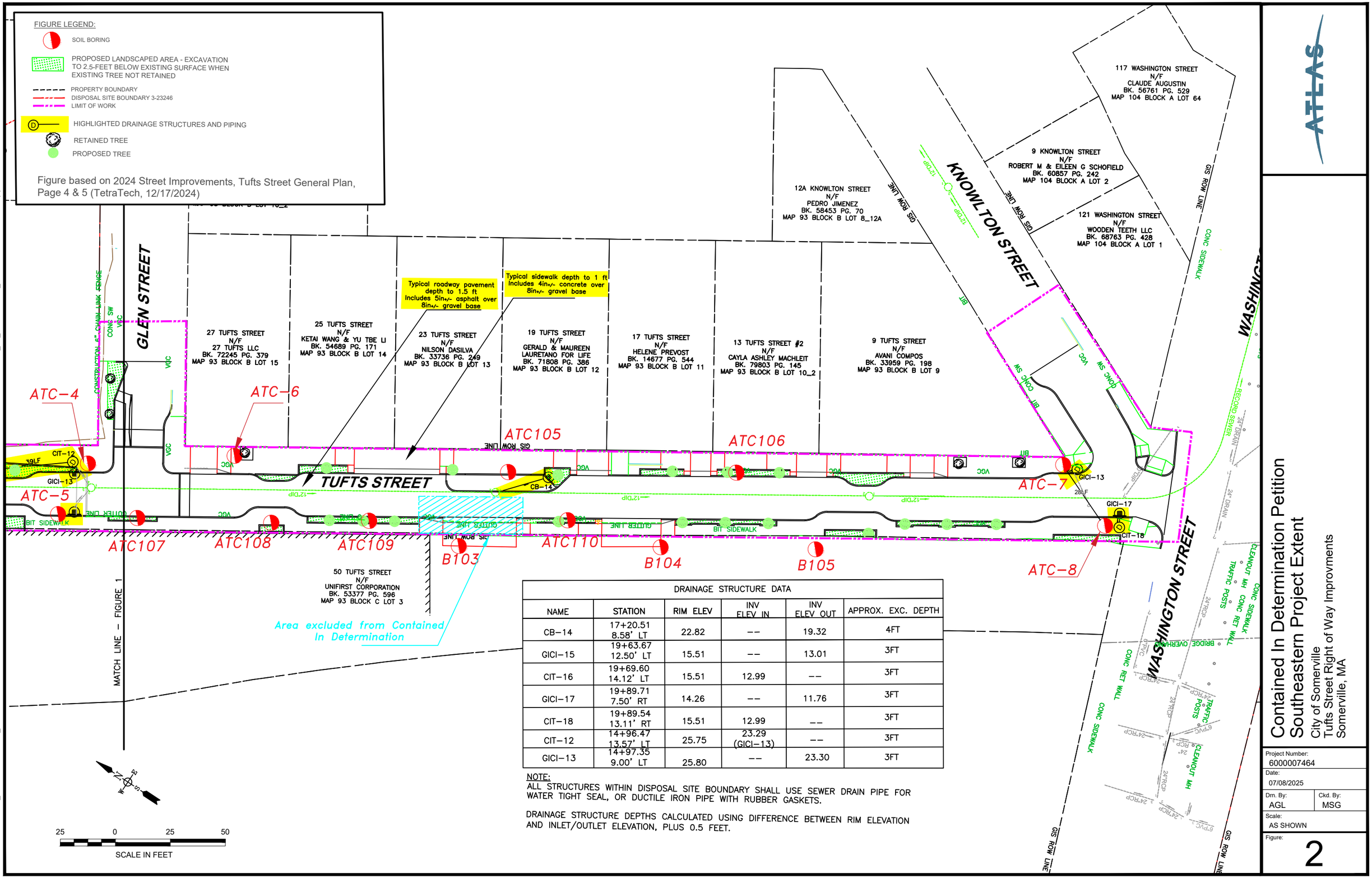
Project Number: 6000007464
Date: 07/08/2025
Drn. By: AGL
Ckd. By: MSG
Scale: AS SHOWN
Figure: 1

\\CORP.ATC.INT\ATC_FILESERVER\WOB_FILESERVER\ENVIRO\CLIENTS - PROJECTS\N - S\SOMERVILLE\TUFTS STREET\FIGURES & PLANS\CAD\TUFTS_ST_SOMERVILLE_MA.DWG, FIG 1 - PAGE 4 (2)

FIGURE LEGEND:

- SOIL BORING
- PROPOSED LANDSCAPED AREA - EXCAVATION TO 2.5-FEET BELOW EXISTING SURFACE WHEN EXISTING TREE NOT RETAINED
- PROPERTY BOUNDARY
- DISPOSAL SITE BOUNDARY 3-23246
- LIMIT OF WORK
- HIGHLIGHTED DRAINAGE STRUCTURES AND PIPING
- RETAINED TREE
- PROPOSED TREE

Figure based on 2024 Street Improvements, Tufts Street General Plan, Page 4 & 5 (TetraTech, 12/17/2024)


GLEN STREET
KNOWLTON STREET
TUFTS STREET
WASHINGTON STREET
27 TUFTS STREET N/F 27 TUFTS LLC BK. 72245 PG. 379 MAP 93 BLOCK B LOT 15
25 TUFTS STREET N/F KETAI WANG & YU TBE LI BK. 54689 PG. 171 MAP 93 BLOCK B LOT 14
23 TUFTS STREET N/F NILSON DASILVA BK. 33736 PG. 249 MAP 93 BLOCK B LOT 13
19 TUFTS STREET N/F GERALD & MAUREEN LAURETANO FOR LIFE BK. 71808 PG. 386 MAP 93 BLOCK B LOT 12
17 TUFTS STREET N/F HELENE PREVOST BK. 14677 PG. 544 MAP 93 BLOCK B LOT 11
13 TUFTS STREET #2 N/F CAYLA ASHLEY MACHLEIT BK. 79803 PG. 145 MAP 93 BLOCK B LOT 10_2
9 TUFTS STREET N/F AVANI COMPOS BK. 33959 PG. 198 MAP 93 BLOCK B LOT 9
12A KNOWLTON STREET N/F PEDRO JIMENEZ BK. 58453 PG. 70 MAP 93 BLOCK B LOT 8_12A
117 WASHINGTON STREET N/F CLAUDE AUGUSTIN BK. 56761 PG. 529 MAP 104 BLOCK A LOT 64
9 KNOWLTON STREET N/F ROBERT M & EILEEN G SCHOFIELD BK. 60857 PG. 242 MAP 104 BLOCK A LOT 2
121 WASHINGTON STREET N/F WOODEN TEETH LLC BK. 68763 PG. 428 MAP 104 BLOCK A LOT 1
50 TUFTS STREET N/F UNIFIRST CORPORATION BK. 53377 PG. 596 MAP 93 BLOCK C LOT 3
Typical roadway pavement depth to 1.5 ft Includes 5in+/- asphalt over 8in+/- gravel base
Typical sidewalk depth to 1 ft Includes 4in+/- concrete over 8in+/- gravel base
ATC-4
ATC-5
ATC-6
ATC-7
ATC-8
ATC105
ATC106
ATC107
ATC108
ATC109
ATC110
B103
B104
B105
CIT-12
GICI-13
CB-14
GICI-17
CIT-18
Area excluded from Contained In Determination
MATCH LINE – FIGURE 1
GIS ROW LINE
CONC SW
VGC
BIT SIDEWALK
12"DIP
24"RCP
6"PVC
CONC RET WALL
TRAFFIC POSTS
CLEANOUT MH
CONC SIDEWALK
BRIDGE OVERPASS
24" OPENING
RECORD SEWER

DRAINAGE STRUCTURE DATA

NAME	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	APPROX. EXC. DEPTH
CB–14	17+20.51 8.58' LT	22.82	--	19.32	4FT
GICI–15	19+63.67 12.50' LT	15.51	--	13.01	3FT
CIT–16	19+69.60 14.12' LT	15.51	12.99	--	3FT
GICI–17	19+89.71 7.50' RT	14.26	--	11.76	3FT
CIT–18	19+89.54 13.11' RT	15.51	12.99	--	3FT
CIT–12	14+96.47 13.57' LT	25.75	23.29 (GICI–13)	--	3FT
GICI–13	14+97.35 9.00' LT	25.80	--	23.30	3FT

NOTE:
ALL STRUCTURES WITHIN DISPOSAL SITE BOUNDARY SHALL USE SEWER DRAIN PIPE FOR WATER TIGHT SEAL, OR DUCTILE IRON PIPE WITH RUBBER GASKETS.

DRAINAGE STRUCTURE DEPTHS CALCULATED USING DIFFERENCE BETWEEN RIM ELEVATION AND INLET/OUTLET ELEVATION, PLUS 0.5 FEET.

25 0 25 50
SCALE IN FEET

ATLAS

Contained In Determination Petition Southeastern Project Extent

City of Somerville
Tufts Street Right of Way Improvments
Somerville, MA

Project Number: 6000007464	
Date: 07/08/2025	
Drn. By: AGL	Ckd. By: MSG
Scale: AS SHOWN	
Figure: 2	

\\CORP.ATC.INT\ATC_FILESERVER\WOB_FILESERVER\ENVIRO\CLIENTS - PROJECTS\N - S\SOMERVILLE\TUFTS STREET\FIGURES & PLANS\CAD\TUFTS_ST_SOMERVILLE_MA.DWG, FIG 2 - PAGE 5 (2)

Table 1 - Soil Analytical Data Summary
Tufts Street - Somerville, MA

	MCP Method 1 Standards			ATC-1	ATC-1	ATC-2	ATC-2	ATC-3	ATC-3	ATC-4	ATC-4
Laboratory ID				**620-17450-5**	**620-17450-6**	**620-17450-3**	**620-17450-4**	620-17450-1	620-17450-2	**620-17450-15**	**620-17450-16**
Sample Depth (feet)	**S-1/GW-1**	**S-1/GW-2**	**S-1/GW-3**	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**	**5-10**
Sample Collection Date				3/15/24	3/15/24	3/15/24	3/15/24	3/15/24	3/15/24	3/14/24	3/14/24
units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Headspace PID Reading (ppmv/v)				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Volatile Organic Compounds (VOCs) by EPA Method 8260C (mg/kg)											
Tetrachloroethene (PCE)	1	4	100	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526
Trichloroethene (TCE)	0.3	0.3	30	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526
cis-1,2-Dichloroethene	0.3	0.1	100	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526
trans-1,2-Dichloroethane	1	1	500	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526
1,2-Dichloroethane (total)	0.1	0.1	30	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526
Vinyl chloride	0.3	0.3	0.3	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526
Chlorobenzene	1	3	100	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526
Methylene Chloride(Dichloromethane)	0.1	3	300	< 0.00938	< 0.0106	<0.0109	< 0.0128	< 0.0197	< 0.0103	< 0.0101	< 0.0105
Toluene	30	500	500	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526

Notes:
MCP = Massachusetts Contingency Plan; 310 CMR 40.0000 (3/1/24)
ppmv/v = Parts per million volitiles by volume
mg/Kg = milligrams per kilogram
Bold indicates detected above laboratory method reporting limit
Green shading indicates above Method 1 S-1 GW-1 Standard
Yellow shading indicates above Method 1 S-1/GW-1 and S-1/GW-2 Standard
NA = Not Analyzed

Table 1 - Soil Analytical Data Summary
Tufts Street - Somerville, MA

	MCP Method 1 Standards			ATC-5	ATC-5	ATC-6	ATC-6	ATC-7	ATC-7	ATC-8	ATC-8
Laboratory ID				**620-17450-17**	**620-17450-18**	**620-17450-13**	**620-17450-14**	**620-17450-11**	**620-17450-12**	**620-17450-9**	**620-17450-10**
Sample Depth (feet)	**S-1/GW-1**	**S-1/GW-2**	**S-1/GW-3**	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**	**5-10**
Sample Collection Date				3/14/24	3/14/24	3/14/24	3/14/24	3/14/24	3/14/24	3/14/24	3/14/24
units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Headspace PID Reading (ppmv/v)				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Volatile Organic Compounds (VOCs) by EPA Method 8260C (mg/kg)											
Tetrachloroethene (PCE)	1	4	100	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67	< 0.0126	< 0.00619	**0.0134**
Trichloroethene (TCE)	0.3	0.3	30	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67	< 0.0126	< 0.00619	< 0.00494
cis-1,2-Dichloroethene	0.3	0.1	100	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67	< 0.0126	< 0.00619	< 0.00494
trans-1,2-Dichloroethane	1	1	500	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67	< 0.0126	< 0.00619	< 0.00494
1,2-Dichloroethane (total)	0.1	0.1	30	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67	< 0.0126	< 0.00619	< 0.00494
Vinyl chloride	0.3	0.3	0.3	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67	< 0.0126	< 0.00619	< 0.00494
Chlorobenzene	1	3	100	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67	< 0.0126	< 0.00619	< 0.00494
Methylene Chloride(Dichloromethane)	0.1	3	300	< 0.0985	< 0.0887	< 0.0104	< 0.0115	< 0.00934	< 0.0253	< 0.0124	< 0.00988
Toluene	30	500	500	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67	< 0.0126	< 0.00619	< 0.00494

Notes:
MCP = Massachusetts Contingency Plan; 310 CMR 40.0000 (3/1/24)
ppmv/v = Parts per million volitiles by volume
mg/Kg = milligrams per kilogram
Bold indicates detected above laboratory method reporting limit
Green shading indicates above Method 1 S-1 GW-1 Standard
Yellow shading indicates above Method 1 S-1/GW-1 and S-1/GW-2 Standard
NA = Not Analyzed

Table 1 - Soil Analytical Data Summary
Tufts Street - Somerville, MA

	MCP Method 1 Standards			50TUFT-B101	50TUFT-B101	50TUFT-B101	50TUFT-B102	50TUFT-B102	50TUFT-B103 (Not included in CID)	50TUFT-B103 (Not included in CID)	50TUFT-B103 (Not included in CID)	50TUFT-B104	50TUFT-B104	50TUFT-B104	50TUFT-B105	50TUFT-B105
Laboratory ID				L2408101-01	L2408101-02	L2408101-03	L2408101-04	L2408101-05	L2408101-06	L2408101-07	L2408101-08	L2408101-09	L2408101-10	L2408101-11	L2408101-12	L2408101-13
Sample Depth (feet)	S-1/GW-1	S-1/GW-2	S-1/GW-3	0-1	1-3	3-5	0-1	1-3	0-1	1-3	3-5	0-1	1-3	3-5	0-1	1-3
Sample Collection Date				2/12/24	2/12/24	2/12/24	2/12/24	2/12/24	2/12/24	2/12/24	2/12/24	2/12/24	2/12/24	2/12/24	2/12/24	2/12/24
units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Headspace PID Reading (ppmv/v)				0.0	0.0	0.0	0.0	0.1	0.6	21.8	0.1	0.1	0.9	0.3	0.0	0.1
Volatile Organic Compounds (VOCs) by EPA Method 8260C (mg/kg)																
Tetrachloroethene (PCE)	1	4	100	**0.0023**	<0.00033	**0.015**	**0.00048**	**0.001**	**100**	**2.8**	**0.00052**	**0.023**	**0.015**	**0.0024**	**0.81**	**0.01**
Trichloroethene (TCE)	0.3	0.3	30	<0.00037	<0.00033	<0.00026	<0.00032	**0.00037**	**0.24**	<0.031	<0.00032	<0.00029	<0.00033	<0.00044	<0.022	<0.00061
cis-1,2-Dichloroethene	0.3	0.1	100	<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	**0.094**	<0.061	<0.00063	<0.00057	<0.00067	<0.00088	<0.044	<0.0012
trans-1,2-Dichloroethane	1	1	500	<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	<0.046	<0.061	<0.00063	<0.00057	<0.00067	<0.00088	<0.044	<0.0012
1,2-Dichloroethane (total)	0.1	0.1	30	<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	**0.094**	<0.061	<0.00063	<0.00057	<0.00067	<0.00088	<0.044	<0.0012
Vinyl chloride	0.3	0.3	0.3	<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	<0.046	<0.061	<0.00063	<0.00057	<0.00067	<0.00088	**0.053**	<0.0012
Chlorobenzene	1	3	100	<0.00037	<0.00033	<0.00026	<0.00032	<0.00029	<0.023	<0.031	<0.00032	<0.00029	<0.00033	<0.00044	<0.022	<0.00061
Methylene Chloride(Dichloromethane)	0.1	3	300	<0.0074	<0.0066	<0.0051	<0.0064	<0.0029	<0.230	<0.310	<0.0063	<0.0057	<0.0067	<0.0088	<0.220	<0.0061
Toluene	30	500	500	<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	<0.046	<0.061	<0.00063	<0.00057	<0.00067	<0.00088	**0.053**	<0.0012

Notes:
MCP = Massachusetts Contingency Plan; 310 CMR 40.0000 (3/1/24)
ppmv/v = Parts per million volitiles by volume
mg/Kg = milligrams per kilogram
Bold indicates detected above laboratory method reporting limit
Green shading indicates above Method 1 S-1 GW-1 Standard
Yellow shading indicates above Method 1 S-1/GW-1 and S-1/GW-2 Standard
NA = Not Analyzed

Table 1 - Soil Analytical Data Summary
Tufts Street - Somerville, MA

	MCP Method 1 Standards			ATC-101	ATC-102	ATC-103	ATC-104	ATC-105	ATC-106	ATC-107	ATC-108	ATC-109	ATC-110
Laboratory ID				**620-27214-1**	**620-27214-2**	**620-27214-3**	**620-27214-4**	**620-27214-5**	**620-27214-6**	**620-27214-7**	**620-27214-8**	**620-27214-9**	**620-27214-10**
Sample Depth (feet)	**S-1/GW-1**	**S-1/GW-2**	**S-1/GW-3**	**0.6-3.0**	**0.3-4.5**	**0.2-3.0**	**0.3-3.0**	**0.5-4.0**	**0.5-3.0**	0.2-3.0	0.2-3.0	0.8-3.0	0.3-3.0
Sample Collection Date				6/26/25	6/26/25	6/26/25	6/26/25	6/26/25	6/26/25	6/26/25	6/26/25	6/26/25	6/26/25
units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Headspace PID Reading (ppmv/v)				0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Volatile Organic Compounds (VOCs) by EPA Method 8260C (mg/kg)													
Tetrachloroethene (PCE)	1	4	100	**0.00651**	<0.00404	<0.00381	<0.00349	<0.00361	<0.00416	<0.00462	<0.00386	<0.00396	**0.0241**
Trichloroethene (TCE)	0.3	0.3	30	<0.00242	<0.00404	<0.00381	<0.00349	<0.00361	<0.00416	<0.00462	<0.00386	<0.00396	<0.00281
cis-1,2-Dichloroethene	0.3	0.1	100	<0.00242	<0.00404	<0.00381	<0.00349	<0.00361	<0.00416	<0.00462	<0.00386	<0.00396	<0.00281
trans-1,2-Dichloroethane	1	1	500	<0.00242	<0.00404	<0.00381	<0.00349	<0.00361	<0.00416	<0.00462	<0.00386	<0.00396	<0.00281
1,2-Dichloroethane (total)	0.1	0.1	30	<0.00242	<0.00404	<0.00381	<0.00349	<0.00361	<0.00416	<0.00462	<0.00386	<0.00396	<0.00281
Vinyl chloride	0.3	0.3	0.3	<0.00242	<0.00404	<0.00381	<0.00349	<0.00361	<0.00416	<0.00462	<0.00386	<0.00396	<0.00281
Chlorobenzene	1	3	100	<0.00242	<0.00404	<0.00381	<0.00349	<0.00361	<0.00416	<0.00462	<0.00386	<0.00396	<0.00281
Methylene Chloride(Dichloromethane)	0.1	3	300	<0.00484	<0.00807	<0.00762	<0.00699	<0.00721	<0.00833	<0.00924	<0.00771	<0.00793	<0.00562
Toluene	30	500	500	<0.00242	<0.00404	<0.00381	<0.00349	<0.00361	<0.00416	<0.00462	<0.00386	<0.00396	<0.00281

Notes:
MCP = Massachusetts Contingency Plan; 310 CMR 40.0000 (3/1/24)
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Bold indicates detected above laboratory method reporting limit
Green shading indicates above Method 1 S-1 GW-1 Standard
Yellow shading indicates above Method 1 S-1/GW-1 and S-1/GW-2 Standard
NA = Not Analyzed

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Aaron Lucci
Atlas Technical Consultants LLC
10 State Street
Woburn, Massachusetts 01801

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JOB DESCRIPTION

Tufts Street Improvement - Somerville, M

JOB NUMBER

620-27214-1

Eurofins Rhode Island
646 Camp Ave
North Kingstown RI 02852

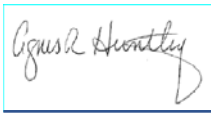
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
Agnes Huntley, Project Manager
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(401)267-4374

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Definitions/Glossary

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins Rhode Island | Project #: 620-27214-1

Project Location: Tufts Street Improvement - Somerville, M | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-27214-1 through 620-27214-10

Matrices: ☐ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☑	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 07/03/2025

Job ID: 620-27214-1 Eurofins Rhode Island

Job Narrative
620-27214-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/27/2025 5:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

GC/MS VOA
Method 8260MCP: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 620-49849 and analytical batch 620-49817 recovered outside control limits for the following analyte: Acetone, which has been identified as a poor performing analyte when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260MCP: The large number of analytes included in the continuing calibration verification ((CCVIS 620-49817/3)) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased low): 1,2-Dibromo-3-Chloropropane, Naphthalene and Tetrahydrofuran.

Method 8260MCP: Internal standard (ISTD) response for the following sample was outside control limits: ATC-106 (0.5-3.0ft) (620-27214-6). The sample was re-extracted and/or re-analyzed and ISTD response was outside control limits.

Method 8260MCP: The continuing calibration verification (CCV) associated with batch 620-49886 exhibited % difference of > 30% for the following analytes: 1,2-Dibromo-3-Chloropropane, Methylene Chloride and Tetrahydrofuran; however, the results of the LCS were within the CCV acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 20% difference from the initial calibration. According to the laboratory standard operating procedure, the LCS is acceptable if it meets the CCV acceptance criteria.

Method 8260MCP: The large number of analytes included in the continuing calibration verification ((CCVIS 620-49886/3)) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes (biased low): Naphthalene.

Method 8260MCP: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 620-49906 and analytical batch 620-49886 recovered outside control limits for the following analyte: Dichlorodifluoromethane (Freon 12), which has been identified as a poor performing analyte when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260MCP: Internal standard (ISTD) response for the following sample was outside control limits: ATC-106 (0.5-3.0ft) (620-27214-6). The sample was re-extracted and/or re-analyzed and ISTD response was outside control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-101 (0.6-3.0ft) — Lab Sample ID: 620-27214-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	6.51		2.42		ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: ATC-102 (0.3-4.5ft) — Lab Sample ID: 620-27214-2

No Detections.

Client Sample ID: ATC-103 (0.2-3.0ft) — Lab Sample ID: 620-27214-3

No Detections.

Client Sample ID: ATC-104 (0.3-3.0ft) — Lab Sample ID: 620-27214-4

No Detections.

Client Sample ID: ATC-105 (0.5-4.0ft) — Lab Sample ID: 620-27214-5

No Detections.

Client Sample ID: ATC-106 (0.5-3.0ft) — Lab Sample ID: 620-27214-6

No Detections.

Client Sample ID: ATC-107 (0.2-3.0ft) — Lab Sample ID: 620-27214-7

No Detections.

Client Sample ID: ATC-108 (0.2-3.0ft) — Lab Sample ID: 620-27214-8

No Detections.

Client Sample ID: ATC-109 (0.8-3.0ft) — Lab Sample ID: 620-27214-9

No Detections.

Client Sample ID: ATC-110 (0.3-3.0ft) — Lab Sample ID: 620-27214-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	24.1		2.81		ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-101 (0.6-3.0ft)
Lab Sample ID: 620-27214-1
Date Collected: 06/26/25 09:00
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 90.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Acetone	ND		24.2		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Acrylonitrile	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Benzene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Bromobenzene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Bromochloromethane	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Bromodichloromethane	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Bromoform	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Bromomethane	ND		4.84		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
2-Butanone (MEK)	ND		4.84		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
n-Butylbenzene	ND		4.84		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
sec-Butylbenzene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
tert-Butylbenzene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Carbon disulfide	ND		4.84		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Carbon tetrachloride	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Chlorobenzene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Chloroethane	ND		4.84		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Chloroform	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Chloromethane	ND		4.84		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
2-Chlorotoluene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
4-Chlorotoluene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
1,2-Dibromo-3-Chloropropane	ND		4.84		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Dibromochloromethane	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
1,2-Dibromoethane (EDB)	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Dibromomethane	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
1,2-Dichlorobenzene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
1,3-Dichlorobenzene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
1,4-Dichlorobenzene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Dichlorodifluoromethane (Freon 12)	ND	*-	4.84		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
1,1-Dichloroethane	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
1,2-Dichloroethane	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
1,1-Dichloroethene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
cis-1,2-Dichloroethene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
trans-1,2-Dichloroethene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
1,2-Dichloropropane	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
1,3-Dichloropropane	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
2,2-Dichloropropane	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
1,1-Dichloropropene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
cis-1,3-Dichloropropene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
trans-1,3-Dichloropropene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Ethylbenzene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Hexachlorobutadiene	ND		4.84		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
2-Hexanone (MBK)	ND		4.84		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Isopropylbenzene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
4-Isopropyltoluene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Methyl tert-butyl ether	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
4-Methyl-2-pentanone (MIBK)	ND		4.84		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Methylene Chloride	ND		4.84		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Naphthalene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1

Client Sample ID: ATC-101 (0.6-3.0ft)
Date Collected: 06/26/25 09:00
Date Received: 06/27/25 17:20

Lab Sample ID: 620-27214-1
Matrix: Solid
Percent Solids: 90.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Styrene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
1,1,1,2-Tetrachloroethane	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
1,1,2,2-Tetrachloroethane	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Tetrachloroethene	**6.51**		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Toluene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
1,2,3-Trichlorobenzene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
1,2,4-Trichlorobenzene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
1,3,5-Trichlorobenzene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
1,1,1-Trichloroethane	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
1,1,2-Trichloroethane	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Trichloroethene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Trichlorofluoromethane (Freon 11)	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
1,2,3-Trichloropropane	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
1,2,4-Trimethylbenzene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
1,3,5-Trimethylbenzene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Vinyl chloride	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
m,p-Xylene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
o-Xylene	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Tetrahydrofuran	ND		4.84		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Ethyl ether	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Tert-amyl methyl ether	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Ethyl tert-butyl ether	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
di-Isopropyl ether	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
tert-Butanol	ND		48.4		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
1,4-Dioxane	ND		48.4		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
trans-1,4-Dichloro-2-butene	ND		12.1		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Ethanol	ND		484		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
1,3-Dichloropropene, Total	ND		2.42		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1
Xylenes, Total	ND		7.26		ug/Kg	☼	07/01/25 12:56	07/01/25 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*07/01/25 12:56*	*07/01/25 14:32*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*07/01/25 12:56*	*07/01/25 14:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*	*07/01/25 12:56*	*07/01/25 14:32*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*	*07/01/25 12:56*	*07/01/25 14:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**10**		0.1		%			06/30/25 09:58	1
Percent Solids (EPA Moisture)	**90.0**		0.1		%			06/30/25 09:58	1

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-102 (0.3-4.5ft)
Lab Sample ID: 620-27214-2
Date Collected: 06/26/25 13:00
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 86.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Acetone	ND	*-	40.4		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Acrylonitrile	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Benzene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Bromobenzene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Bromochloromethane	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Bromodichloromethane	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Bromoform	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Bromomethane	ND		8.07		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
2-Butanone (MEK)	ND		8.07		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
n-Butylbenzene	ND		8.07		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
sec-Butylbenzene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
tert-Butylbenzene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Carbon disulfide	ND		8.07		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Carbon tetrachloride	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Chlorobenzene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Chloroethane	ND		8.07		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Chloroform	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Chloromethane	ND		8.07		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
2-Chlorotoluene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
4-Chlorotoluene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
1,2-Dibromo-3-Chloropropane	ND		8.07		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Dibromochloromethane	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
1,2-Dibromoethane (EDB)	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Dibromomethane	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
1,2-Dichlorobenzene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
1,3-Dichlorobenzene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
1,4-Dichlorobenzene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Dichlorodifluoromethane (Freon 12)	ND		8.07		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
1,1-Dichloroethane	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
1,2-Dichloroethane	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
1,1-Dichloroethene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
cis-1,2-Dichloroethene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
trans-1,2-Dichloroethene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
1,2-Dichloropropane	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
1,3-Dichloropropane	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
2,2-Dichloropropane	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
1,1-Dichloropropene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
cis-1,3-Dichloropropene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
trans-1,3-Dichloropropene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Ethylbenzene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Hexachlorobutadiene	ND		8.07		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
2-Hexanone (MBK)	ND		8.07		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Isopropylbenzene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
4-Isopropyltoluene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Methyl tert-butyl ether	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
4-Methyl-2-pentanone (MIBK)	ND		8.07		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Methylene Chloride	ND		8.07		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Naphthalene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-102 (0.3-4.5ft)
Lab Sample ID: 620-27214-2
Date Collected: 06/26/25 13:00
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 86.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Styrene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
1,1,1,2-Tetrachloroethane	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
1,1,2,2-Tetrachloroethane	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Tetrachloroethene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Toluene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
1,2,3-Trichlorobenzene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
1,2,4-Trichlorobenzene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
1,3,5-Trichlorobenzene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
1,1,1-Trichloroethane	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
1,1,2-Trichloroethane	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Trichloroethene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Trichlorofluoromethane (Freon 11)	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
1,2,3-Trichloropropane	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
1,2,4-Trimethylbenzene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
1,3,5-Trimethylbenzene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Vinyl chloride	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
m,p-Xylene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
o-Xylene	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Tetrahydrofuran	ND		8.07		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Ethyl ether	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Tert-amyl methyl ether	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Ethyl tert-butyl ether	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
di-Isopropyl ether	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
tert-Butanol	ND		80.7		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
1,4-Dioxane	ND		80.7		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
trans-1,4-Dichloro-2-butene	ND		20.2		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Ethanol	ND		807		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
1,3-Dichloropropene, Total	ND		4.04		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1
Xylenes, Total	ND		12.1		ug/Kg	☼	06/30/25 14:57	06/30/25 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*06/30/25 14:57*	*06/30/25 16:05*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*06/30/25 14:57*	*06/30/25 16:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*06/30/25 14:57*	*06/30/25 16:05*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*	*06/30/25 14:57*	*06/30/25 16:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.0**		0.1		%			06/30/25 09:58	1
Percent Solids (EPA Moisture)	**86.0**		0.1		%			06/30/25 09:58	1

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-103 (0.2-3.0ft)
Lab Sample ID: 620-27214-3
Date Collected: 06/26/25 09:30
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 84.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Acetone	ND	*-	38.1		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Acrylonitrile	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Benzene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Bromobenzene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Bromochloromethane	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Bromodichloromethane	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Bromoform	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Bromomethane	ND		7.62		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
2-Butanone (MEK)	ND		7.62		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
n-Butylbenzene	ND		7.62		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
sec-Butylbenzene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
tert-Butylbenzene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Carbon disulfide	ND		7.62		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Carbon tetrachloride	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Chlorobenzene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Chloroethane	ND		7.62		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Chloroform	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Chloromethane	ND		7.62		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
2-Chlorotoluene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
4-Chlorotoluene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
1,2-Dibromo-3-Chloropropane	ND		7.62		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Dibromochloromethane	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
1,2-Dibromoethane (EDB)	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Dibromomethane	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
1,2-Dichlorobenzene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
1,3-Dichlorobenzene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
1,4-Dichlorobenzene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Dichlorodifluoromethane (Freon 12)	ND		7.62		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
1,1-Dichloroethane	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
1,2-Dichloroethane	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
1,1-Dichloroethene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
cis-1,2-Dichloroethene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
trans-1,2-Dichloroethene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
1,2-Dichloropropane	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
1,3-Dichloropropane	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
2,2-Dichloropropane	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
1,1-Dichloropropene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
cis-1,3-Dichloropropene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
trans-1,3-Dichloropropene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Ethylbenzene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Hexachlorobutadiene	ND		7.62		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
2-Hexanone (MBK)	ND		7.62		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Isopropylbenzene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
4-Isopropyltoluene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Methyl tert-butyl ether	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
4-Methyl-2-pentanone (MIBK)	ND		7.62		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Methylene Chloride	ND		7.62		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Naphthalene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-103 (0.2-3.0ft)
Lab Sample ID: 620-27214-3
Date Collected: 06/26/25 09:30
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 84.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Styrene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
1,1,1,2-Tetrachloroethane	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
1,1,2,2-Tetrachloroethane	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Tetrachloroethene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Toluene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
1,2,3-Trichlorobenzene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
1,2,4-Trichlorobenzene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
1,3,5-Trichlorobenzene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
1,1,1-Trichloroethane	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
1,1,2-Trichloroethane	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Trichloroethene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Trichlorofluoromethane (Freon 11)	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
1,2,3-Trichloropropane	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
1,2,4-Trimethylbenzene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
1,3,5-Trimethylbenzene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Vinyl chloride	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
m,p-Xylene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
o-Xylene	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Tetrahydrofuran	ND		7.62		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Ethyl ether	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Tert-amyl methyl ether	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Ethyl tert-butyl ether	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
di-Isopropyl ether	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
tert-Butanol	ND		76.2		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
1,4-Dioxane	ND		76.2		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
trans-1,4-Dichloro-2-butene	ND		19.0		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Ethanol	ND		762		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
1,3-Dichloropropene, Total	ND		3.81		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1
Xylenes, Total	ND		11.4		ug/Kg	☼	06/30/25 14:57	06/30/25 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*06/30/25 14:57*	*06/30/25 16:32*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*06/30/25 14:57*	*06/30/25 16:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*06/30/25 14:57*	*06/30/25 16:32*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*06/30/25 14:57*	*06/30/25 16:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**15.1**		0.1		%			06/30/25 09:58	1
Percent Solids (EPA Moisture)	**84.9**		0.1		%			06/30/25 09:58	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-27214-1

Client Sample ID: ATC-104 (0.3-3.0ft)
Date Collected: 06/26/25 09:50
Date Received: 06/27/25 17:20

Lab Sample ID: 620-27214-4
Matrix: Solid
Percent Solids: 91.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Acetone	ND	*-	34.9		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Acrylonitrile	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Benzene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Bromobenzene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Bromochloromethane	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Bromodichloromethane	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Bromoform	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Bromomethane	ND		6.99		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
2-Butanone (MEK)	ND		6.99		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
n-Butylbenzene	ND		6.99		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
sec-Butylbenzene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
tert-Butylbenzene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Carbon disulfide	ND		6.99		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Carbon tetrachloride	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Chlorobenzene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Chloroethane	ND		6.99		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Chloroform	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Chloromethane	ND		6.99		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
2-Chlorotoluene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
4-Chlorotoluene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
1,2-Dibromo-3-Chloropropane	ND		6.99		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Dibromochloromethane	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
1,2-Dibromoethane (EDB)	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Dibromomethane	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
1,2-Dichlorobenzene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
1,3-Dichlorobenzene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
1,4-Dichlorobenzene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Dichlorodifluoromethane (Freon 12)	ND		6.99		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
1,1-Dichloroethane	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
1,2-Dichloroethane	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
1,1-Dichloroethene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
cis-1,2-Dichloroethene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
trans-1,2-Dichloroethene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
1,2-Dichloropropane	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
1,3-Dichloropropane	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
2,2-Dichloropropane	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
1,1-Dichloropropene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
cis-1,3-Dichloropropene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
trans-1,3-Dichloropropene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Ethylbenzene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Hexachlorobutadiene	ND		6.99		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
2-Hexanone (MBK)	ND		6.99		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Isopropylbenzene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
4-Isopropyltoluene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Methyl tert-butyl ether	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
4-Methyl-2-pentanone (MIBK)	ND		6.99		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Methylene Chloride	ND		6.99		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Naphthalene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-104 (0.3-3.0ft)
Lab Sample ID: 620-27214-4
Date Collected: 06/26/25 09:50
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 91.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Styrene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
1,1,1,2-Tetrachloroethane	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
1,1,2,2-Tetrachloroethane	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Tetrachloroethene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Toluene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
1,2,3-Trichlorobenzene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
1,2,4-Trichlorobenzene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
1,3,5-Trichlorobenzene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
1,1,1-Trichloroethane	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
1,1,2-Trichloroethane	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Trichloroethene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Trichlorofluoromethane (Freon 11)	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
1,2,3-Trichloropropane	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
1,2,4-Trimethylbenzene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
1,3,5-Trimethylbenzene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Vinyl chloride	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
m,p-Xylene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
o-Xylene	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Tetrahydrofuran	ND		6.99		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Ethyl ether	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Tert-amyl methyl ether	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Ethyl tert-butyl ether	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
di-Isopropyl ether	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
tert-Butanol	ND		69.9		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
1,4-Dioxane	ND		69.9		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
trans-1,4-Dichloro-2-butene	ND		17.5		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Ethanol	ND		699		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
1,3-Dichloropropene, Total	ND		3.49		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1
Xylenes, Total	ND		10.5		ug/Kg	☼	06/30/25 14:57	06/30/25 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/30/25 14:57*	*06/30/25 16:59*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*06/30/25 14:57*	*06/30/25 16:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*06/30/25 14:57*	*06/30/25 16:59*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*06/30/25 14:57*	*06/30/25 16:59*	*1*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**8.2**		0.1		%			06/30/25 09:58	1
Percent Solids (EPA Moisture)	**91.8**		0.1		%			06/30/25 09:58	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-27214-1

Client Sample ID: ATC-105 (0.5-4.0ft)

Date Collected: 06/26/25 12:30
Date Received: 06/27/25 17:20

Lab Sample ID: 620-27214-5

Matrix: Solid
Percent Solids: 88.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Acetone	ND	*-	36.1		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Acrylonitrile	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Benzene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Bromobenzene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Bromochloromethane	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Bromodichloromethane	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Bromoform	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Bromomethane	ND		7.21		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
2-Butanone (MEK)	ND		7.21		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
n-Butylbenzene	ND		7.21		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
sec-Butylbenzene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
tert-Butylbenzene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Carbon disulfide	ND		7.21		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Carbon tetrachloride	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Chlorobenzene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Chloroethane	ND		7.21		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Chloroform	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Chloromethane	ND		7.21		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
2-Chlorotoluene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
4-Chlorotoluene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
1,2-Dibromo-3-Chloropropane	ND		7.21		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Dibromochloromethane	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
1,2-Dibromoethane (EDB)	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Dibromomethane	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
1,2-Dichlorobenzene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
1,3-Dichlorobenzene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
1,4-Dichlorobenzene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Dichlorodifluoromethane (Freon 12)	ND		7.21		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
1,1-Dichloroethane	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
1,2-Dichloroethane	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
1,1-Dichloroethene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
cis-1,2-Dichloroethene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
trans-1,2-Dichloroethene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
1,2-Dichloropropane	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
1,3-Dichloropropane	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
2,2-Dichloropropane	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
1,1-Dichloropropene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
cis-1,3-Dichloropropene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
trans-1,3-Dichloropropene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Ethylbenzene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Hexachlorobutadiene	ND		7.21		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
2-Hexanone (MBK)	ND		7.21		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Isopropylbenzene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
4-Isopropyltoluene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Methyl tert-butyl ether	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
4-Methyl-2-pentanone (MIBK)	ND		7.21		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Methylene Chloride	ND		7.21		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Naphthalene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1

Client Sample ID: ATC-105 (0.5-4.0ft)
Lab Sample ID: 620-27214-5
Date Collected: 06/26/25 12:30
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 88.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Styrene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
1,1,1,2-Tetrachloroethane	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
1,1,2,2-Tetrachloroethane	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Tetrachloroethene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Toluene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
1,2,3-Trichlorobenzene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
1,2,4-Trichlorobenzene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
1,3,5-Trichlorobenzene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
1,1,1-Trichloroethane	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
1,1,2-Trichloroethane	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Trichloroethene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Trichlorofluoromethane (Freon 11)	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
1,2,3-Trichloropropane	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
1,2,4-Trimethylbenzene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
1,3,5-Trimethylbenzene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Vinyl chloride	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
m,p-Xylene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
o-Xylene	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Tetrahydrofuran	ND		7.21		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Ethyl ether	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Tert-amyl methyl ether	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Ethyl tert-butyl ether	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
di-Isopropyl ether	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
tert-Butanol	ND		72.1		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
1,4-Dioxane	ND		72.1		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
trans-1,4-Dichloro-2-butene	ND		18.0		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Ethanol	ND		721		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
1,3-Dichloropropene, Total	ND		3.61		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1
Xylenes, Total	ND		10.8		ug/Kg	☼	06/30/25 14:57	06/30/25 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*06/30/25 14:57*	*06/30/25 17:25*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*06/30/25 14:57*	*06/30/25 17:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*06/30/25 14:57*	*06/30/25 17:25*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*	*06/30/25 14:57*	*06/30/25 17:25*	*1*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**11.8**		0.1		%			06/30/25 09:58	1
Percent Solids (EPA Moisture)	**88.2**		0.1		%			06/30/25 09:58	1

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-106 (0.5-3.0ft)
Lab Sample ID: 620-27214-6
Date Collected: 06/26/25 11:40
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 92.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Acetone	ND	*-	47.1		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Acrylonitrile	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Benzene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Bromobenzene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Bromochloromethane	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Bromodichloromethane	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Bromoform	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Bromomethane	ND		9.41		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
2-Butanone (MEK)	ND		9.41		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
n-Butylbenzene	ND	*3	9.41		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
sec-Butylbenzene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
tert-Butylbenzene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Carbon disulfide	ND		9.41		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Carbon tetrachloride	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Chlorobenzene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Chloroethane	ND		9.41		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Chloroform	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Chloromethane	ND		9.41		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
2-Chlorotoluene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
4-Chlorotoluene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
1,2-Dibromo-3-Chloropropane	ND	*3	9.41		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Dibromochloromethane	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
1,2-Dibromoethane (EDB)	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Dibromomethane	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
1,2-Dichlorobenzene	ND	*3	4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
1,3-Dichlorobenzene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
1,4-Dichlorobenzene	ND	*3	4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Dichlorodifluoromethane (Freon 12)	ND		9.41		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
1,1-Dichloroethane	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
1,2-Dichloroethane	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
1,1-Dichloroethene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
cis-1,2-Dichloroethene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
trans-1,2-Dichloroethene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
1,2-Dichloropropane	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
1,3-Dichloropropane	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
2,2-Dichloropropane	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
1,1-Dichloropropene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
cis-1,3-Dichloropropene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
trans-1,3-Dichloropropene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Ethylbenzene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Hexachlorobutadiene	ND	*3	9.41		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
2-Hexanone (MBK)	ND		9.41		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Isopropylbenzene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
4-Isopropyltoluene	ND	*3	4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Methyl tert-butyl ether	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
4-Methyl-2-pentanone (MIBK)	ND		9.41		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Methylene Chloride	ND		9.41		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Naphthalene	ND	*3	4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1

Client Sample ID: ATC-106 (0.5-3.0ft)
Lab Sample ID: 620-27214-6
Date Collected: 06/26/25 11:40
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 92.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Styrene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
1,1,1,2-Tetrachloroethane	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
1,1,2,2-Tetrachloroethane	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Tetrachloroethene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Toluene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
1,2,3-Trichlorobenzene	ND	*3	4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
1,2,4-Trichlorobenzene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
1,3,5-Trichlorobenzene	ND	*3	4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
1,1,1-Trichloroethane	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
1,1,2-Trichloroethane	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Trichloroethene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Trichlorofluoromethane (Freon 11)	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
1,2,3-Trichloropropane	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
1,2,4-Trimethylbenzene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
1,3,5-Trimethylbenzene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Vinyl chloride	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
m,p-Xylene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
o-Xylene	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Tetrahydrofuran	ND		9.41		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Ethyl ether	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Tert-amyl methyl ether	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Ethyl tert-butyl ether	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
di-Isopropyl ether	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
tert-Butanol	ND		94.1		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
1,4-Dioxane	ND		94.1		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
trans-1,4-Dichloro-2-butene	ND		23.5		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Ethanol	ND		941		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
1,3-Dichloropropene, Total	ND		4.71		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1
Xylenes, Total	ND		14.1		ug/Kg	☼	06/30/25 14:57	06/30/25 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*06/30/25 14:57*	*06/30/25 17:53*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*06/30/25 14:57*	*06/30/25 17:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*	*06/30/25 14:57*	*06/30/25 17:53*	*1*
Dibromofluoromethane (Surr)	*114*		*70 - 130*	*06/30/25 14:57*	*06/30/25 17:53*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Acetone	ND		41.6		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Acrylonitrile	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Benzene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Bromobenzene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Bromochloromethane	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Bromodichloromethane	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Bromoform	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Bromomethane	ND		8.33		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
2-Butanone (MEK)	ND		8.33		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-106 (0.5-3.0ft)
Lab Sample ID: 620-27214-6
Date Collected: 06/26/25 11:40
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 92.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	8.33		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
sec-Butylbenzene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
tert-Butylbenzene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Carbon disulfide	ND		8.33		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Carbon tetrachloride	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Chlorobenzene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Chloroethane	ND		8.33		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Chloroform	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Chloromethane	ND		8.33		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
2-Chlorotoluene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
4-Chlorotoluene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
1,2-Dibromo-3-Chloropropane	ND	*3	8.33		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Dibromochloromethane	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
1,2-Dibromoethane (EDB)	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Dibromomethane	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
1,2-Dichlorobenzene	ND	*3	4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
1,3-Dichlorobenzene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
1,4-Dichlorobenzene	ND	*3	4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Dichlorodifluoromethane (Freon 12)	ND	*-	8.33		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
1,1-Dichloroethane	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
1,2-Dichloroethane	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
1,1-Dichloroethene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
cis-1,2-Dichloroethene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
trans-1,2-Dichloroethene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
1,2-Dichloropropane	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
1,3-Dichloropropane	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
2,2-Dichloropropane	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
1,1-Dichloropropene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
cis-1,3-Dichloropropene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
trans-1,3-Dichloropropene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Ethylbenzene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Hexachlorobutadiene	ND	*3	8.33		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
2-Hexanone (MBK)	ND		8.33		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Isopropylbenzene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
4-Isopropyltoluene	ND	*3	4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Methyl tert-butyl ether	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
4-Methyl-2-pentanone (MIBK)	ND		8.33		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Methylene Chloride	ND		8.33		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Naphthalene	ND	*3	4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
N-Propylbenzene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Styrene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
1,1,1,2-Tetrachloroethane	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
1,1,2,2-Tetrachloroethane	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Tetrachloroethene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Toluene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
1,2,3-Trichlorobenzene	ND	*3	4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
1,2,4-Trichlorobenzene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
1,3,5-Trichlorobenzene	ND	*3	4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
1,1,1-Trichloroethane	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-106 (0.5-3.0ft)
Lab Sample ID: 620-27214-6
Date Collected: 06/26/25 11:40
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 92.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Trichloroethene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Trichlorofluoromethane (Freon 11)	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
1,2,3-Trichloropropane	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
1,2,4-Trimethylbenzene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
1,3,5-Trimethylbenzene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Vinyl chloride	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
m,p-Xylene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
o-Xylene	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Tetrahydrofuran	ND		8.33		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Ethyl ether	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Tert-amyl methyl ether	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Ethyl tert-butyl ether	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
di-Isopropyl ether	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
tert-Butanol	ND		83.3		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
1,4-Dioxane	ND		83.3		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
trans-1,4-Dichloro-2-butene	ND		20.8		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Ethanol	ND		833		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
1,3-Dichloropropene, Total	ND		4.16		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1
Xylenes, Total	ND		12.5		ug/Kg	☼	07/01/25 12:56	07/01/25 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*07/01/25 12:56*	*07/01/25 15:01*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*07/01/25 12:56*	*07/01/25 15:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*	*07/01/25 12:56*	*07/01/25 15:01*	*1*
Dibromofluoromethane (Surr)	*115*		*70 - 130*	*07/01/25 12:56*	*07/01/25 15:01*	*1*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.6**		0.1		%			06/30/25 10:01	1
Percent Solids (EPA Moisture)	**92.4**		0.1		%			06/30/25 10:01	1

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-107 (0.2-3.0ft)
Lab Sample ID: 620-27214-7
Date Collected: 06/26/25 10:20
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 89.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Acetone	ND	*-	46.2		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Acrylonitrile	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Benzene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Bromobenzene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Bromochloromethane	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Bromodichloromethane	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Bromoform	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Bromomethane	ND		9.24		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
2-Butanone (MEK)	ND		9.24		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
n-Butylbenzene	ND		9.24		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
sec-Butylbenzene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
tert-Butylbenzene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Carbon disulfide	ND		9.24		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Carbon tetrachloride	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Chlorobenzene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Chloroethane	ND		9.24		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Chloroform	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Chloromethane	ND		9.24		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
2-Chlorotoluene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
4-Chlorotoluene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
1,2-Dibromo-3-Chloropropane	ND		9.24		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Dibromochloromethane	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
1,2-Dibromoethane (EDB)	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Dibromomethane	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
1,2-Dichlorobenzene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
1,3-Dichlorobenzene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
1,4-Dichlorobenzene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Dichlorodifluoromethane (Freon 12)	ND		9.24		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
1,1-Dichloroethane	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
1,2-Dichloroethane	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
1,1-Dichloroethene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
cis-1,2-Dichloroethene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
trans-1,2-Dichloroethene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
1,2-Dichloropropane	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
1,3-Dichloropropane	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
2,2-Dichloropropane	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
1,1-Dichloropropene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
cis-1,3-Dichloropropene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
trans-1,3-Dichloropropene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Ethylbenzene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Hexachlorobutadiene	ND		9.24		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
2-Hexanone (MBK)	ND		9.24		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Isopropylbenzene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
4-Isopropyltoluene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Methyl tert-butyl ether	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
4-Methyl-2-pentanone (MIBK)	ND		9.24		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Methylene Chloride	ND		9.24		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Naphthalene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1

Client Sample ID: ATC-107 (0.2-3.0ft)
Lab Sample ID: 620-27214-7

Date Collected: 06/26/25 10:20
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 89.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Styrene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
1,1,1,2-Tetrachloroethane	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
1,1,2,2-Tetrachloroethane	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Tetrachloroethene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Toluene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
1,2,3-Trichlorobenzene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
1,2,4-Trichlorobenzene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
1,3,5-Trichlorobenzene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
1,1,1-Trichloroethane	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
1,1,2-Trichloroethane	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Trichloroethene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Trichlorofluoromethane (Freon 11)	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
1,2,3-Trichloropropane	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
1,2,4-Trimethylbenzene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
1,3,5-Trimethylbenzene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Vinyl chloride	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
m,p-Xylene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
o-Xylene	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Tetrahydrofuran	ND		9.24		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Ethyl ether	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Tert-amyl methyl ether	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Ethyl tert-butyl ether	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
di-Isopropyl ether	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
tert-Butanol	ND		92.4		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
1,4-Dioxane	ND		92.4		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
trans-1,4-Dichloro-2-butene	ND		23.1		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Ethanol	ND		924		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
1,3-Dichloropropene, Total	ND		4.62		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1
Xylenes, Total	ND		13.9		ug/Kg	☼	06/30/25 14:57	06/30/25 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*06/30/25 14:57*	*06/30/25 18:21*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*06/30/25 14:57*	*06/30/25 18:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*06/30/25 14:57*	*06/30/25 18:21*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*	*06/30/25 14:57*	*06/30/25 18:21*	*1*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**10.3**		0.1		%			06/30/25 10:01	1
Percent Solids (EPA Moisture)	**89.7**		0.1		%			06/30/25 10:01	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-27214-1

Client Sample ID: ATC-108 (0.2-3.0ft)
Date Collected: 06/26/25 10:40
Date Received: 06/27/25 17:20

Lab Sample ID: 620-27214-8
Matrix: Solid
Percent Solids: 93.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Acetone	ND	*-	38.6		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Acrylonitrile	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Benzene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Bromobenzene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Bromochloromethane	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Bromodichloromethane	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Bromoform	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Bromomethane	ND		7.71		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
2-Butanone (MEK)	ND		7.71		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
n-Butylbenzene	ND		7.71		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
sec-Butylbenzene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
tert-Butylbenzene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Carbon disulfide	ND		7.71		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Carbon tetrachloride	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Chlorobenzene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Chloroethane	ND		7.71		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Chloroform	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Chloromethane	ND		7.71		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
2-Chlorotoluene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
4-Chlorotoluene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
1,2-Dibromo-3-Chloropropane	ND		7.71		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Dibromochloromethane	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
1,2-Dibromoethane (EDB)	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Dibromomethane	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
1,2-Dichlorobenzene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
1,3-Dichlorobenzene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
1,4-Dichlorobenzene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Dichlorodifluoromethane (Freon 12)	ND		7.71		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
1,1-Dichloroethane	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
1,2-Dichloroethane	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
1,1-Dichloroethene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
cis-1,2-Dichloroethene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
trans-1,2-Dichloroethene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
1,2-Dichloropropane	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
1,3-Dichloropropane	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
2,2-Dichloropropane	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
1,1-Dichloropropene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
cis-1,3-Dichloropropene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
trans-1,3-Dichloropropene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Ethylbenzene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Hexachlorobutadiene	ND		7.71		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
2-Hexanone (MBK)	ND		7.71		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Isopropylbenzene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
4-Isopropyltoluene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Methyl tert-butyl ether	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
4-Methyl-2-pentanone (MIBK)	ND		7.71		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Methylene Chloride	ND		7.71		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Naphthalene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-27214-1

Client Sample ID: ATC-108 (0.2-3.0ft)

Date Collected: 06/26/25 10:40
Date Received: 06/27/25 17:20

Lab Sample ID: 620-27214-8

Matrix: Solid
Percent Solids: 93.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Styrene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
1,1,1,2-Tetrachloroethane	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
1,1,2,2-Tetrachloroethane	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Tetrachloroethene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Toluene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
1,2,3-Trichlorobenzene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
1,2,4-Trichlorobenzene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
1,3,5-Trichlorobenzene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
1,1,1-Trichloroethane	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
1,1,2-Trichloroethane	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Trichloroethene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Trichlorofluoromethane (Freon 11)	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
1,2,3-Trichloropropane	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
1,2,4-Trimethylbenzene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
1,3,5-Trimethylbenzene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Vinyl chloride	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
m,p-Xylene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
o-Xylene	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Tetrahydrofuran	ND		7.71		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Ethyl ether	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Tert-amyl methyl ether	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Ethyl tert-butyl ether	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
di-Isopropyl ether	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
tert-Butanol	ND		77.1		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
1,4-Dioxane	ND		77.1		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
trans-1,4-Dichloro-2-butene	ND		19.3		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Ethanol	ND		771		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
1,3-Dichloropropene, Total	ND		3.86		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1
Xylenes, Total	ND		11.6		ug/Kg	☼	06/30/25 14:57	06/30/25 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*06/30/25 14:57*	*06/30/25 18:49*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*06/30/25 14:57*	*06/30/25 18:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*	*06/30/25 14:57*	*06/30/25 18:49*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*	*06/30/25 14:57*	*06/30/25 18:49*	*1*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.7**		0.1		%			06/30/25 10:01	1
Percent Solids (EPA Moisture)	**93.3**		0.1		%			06/30/25 10:01	1

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-109 (0.8-3.0ft)
Lab Sample ID: 620-27214-9
Date Collected: 06/26/25 11:00
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 84.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Acetone	ND	*-	39.6		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Acrylonitrile	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Benzene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Bromobenzene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Bromochloromethane	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Bromodichloromethane	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Bromoform	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Bromomethane	ND		7.93		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
2-Butanone (MEK)	ND		7.93		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
n-Butylbenzene	ND		7.93		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
sec-Butylbenzene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
tert-Butylbenzene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Carbon disulfide	ND		7.93		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Carbon tetrachloride	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Chlorobenzene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Chloroethane	ND		7.93		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Chloroform	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Chloromethane	ND		7.93		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
2-Chlorotoluene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
4-Chlorotoluene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
1,2-Dibromo-3-Chloropropane	ND		7.93		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Dibromochloromethane	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
1,2-Dibromoethane (EDB)	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Dibromomethane	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
1,2-Dichlorobenzene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
1,3-Dichlorobenzene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
1,4-Dichlorobenzene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Dichlorodifluoromethane (Freon 12)	ND		7.93		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
1,1-Dichloroethane	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
1,2-Dichloroethane	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
1,1-Dichloroethene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
cis-1,2-Dichloroethene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
trans-1,2-Dichloroethene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
1,2-Dichloropropane	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
1,3-Dichloropropane	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
2,2-Dichloropropane	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
1,1-Dichloropropene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
cis-1,3-Dichloropropene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
trans-1,3-Dichloropropene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Ethylbenzene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Hexachlorobutadiene	ND		7.93		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
2-Hexanone (MBK)	ND		7.93		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Isopropylbenzene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
4-Isopropyltoluene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Methyl tert-butyl ether	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
4-Methyl-2-pentanone (MIBK)	ND		7.93		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Methylene Chloride	ND		7.93		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Naphthalene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-109 (0.8-3.0ft)
Lab Sample ID: 620-27214-9
Date Collected: 06/26/25 11:00
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 84.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Styrene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
1,1,1,2-Tetrachloroethane	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
1,1,2,2-Tetrachloroethane	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Tetrachloroethene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Toluene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
1,2,3-Trichlorobenzene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
1,2,4-Trichlorobenzene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
1,3,5-Trichlorobenzene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
1,1,1-Trichloroethane	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
1,1,2-Trichloroethane	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Trichloroethene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Trichlorofluoromethane (Freon 11)	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
1,2,3-Trichloropropane	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
1,2,4-Trimethylbenzene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
1,3,5-Trimethylbenzene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Vinyl chloride	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
m,p-Xylene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
o-Xylene	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Tetrahydrofuran	ND		7.93		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Ethyl ether	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Tert-amyl methyl ether	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Ethyl tert-butyl ether	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
di-Isopropyl ether	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
tert-Butanol	ND		79.3		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
1,4-Dioxane	ND		79.3		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
trans-1,4-Dichloro-2-butene	ND		19.8		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Ethanol	ND		793		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
1,3-Dichloropropene, Total	ND		3.96		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1
Xylenes, Total	ND		11.9		ug/Kg	☼	06/30/25 14:57	06/30/25 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*06/30/25 14:57*	*06/30/25 19:15*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*06/30/25 14:57*	*06/30/25 19:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*06/30/25 14:57*	*06/30/25 19:15*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*	*06/30/25 14:57*	*06/30/25 19:15*	*1*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**15.8**		0.1		%			06/30/25 10:01	1
Percent Solids (EPA Moisture)	**84.2**		0.1		%			06/30/25 10:01	1

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-110 (0.3-3.0ft)
Lab Sample ID: 620-27214-10
Date Collected: 06/26/25 11:40
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 88.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Acetone	ND	*-	28.1		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Acrylonitrile	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Benzene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Bromobenzene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Bromochloromethane	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Bromodichloromethane	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Bromoform	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Bromomethane	ND		5.62		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
2-Butanone (MEK)	ND		5.62		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
n-Butylbenzene	ND		5.62		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
sec-Butylbenzene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
tert-Butylbenzene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Carbon disulfide	ND		5.62		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Carbon tetrachloride	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Chlorobenzene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Chloroethane	ND		5.62		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Chloroform	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Chloromethane	ND		5.62		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
2-Chlorotoluene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
4-Chlorotoluene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
1,2-Dibromo-3-Chloropropane	ND		5.62		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Dibromochloromethane	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
1,2-Dibromoethane (EDB)	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Dibromomethane	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
1,2-Dichlorobenzene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
1,3-Dichlorobenzene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
1,4-Dichlorobenzene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Dichlorodifluoromethane (Freon 12)	ND		5.62		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
1,1-Dichloroethane	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
1,2-Dichloroethane	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
1,1-Dichloroethene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
cis-1,2-Dichloroethene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
trans-1,2-Dichloroethene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
1,2-Dichloropropane	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
1,3-Dichloropropane	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
2,2-Dichloropropane	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
1,1-Dichloropropene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
cis-1,3-Dichloropropene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
trans-1,3-Dichloropropene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Ethylbenzene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Hexachlorobutadiene	ND		5.62		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
2-Hexanone (MBK)	ND		5.62		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Isopropylbenzene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
4-Isopropyltoluene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Methyl tert-butyl ether	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.62		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Methylene Chloride	ND		5.62		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Naphthalene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-110 (0.3-3.0ft)
Lab Sample ID: 620-27214-10
Date Collected: 06/26/25 11:40
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 88.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Styrene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
1,1,1,2-Tetrachloroethane	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
1,1,2,2-Tetrachloroethane	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Tetrachloroethene	**24.1**		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Toluene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
1,2,3-Trichlorobenzene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
1,2,4-Trichlorobenzene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
1,3,5-Trichlorobenzene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
1,1,1-Trichloroethane	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
1,1,2-Trichloroethane	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Trichloroethene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Trichlorofluoromethane (Freon 11)	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
1,2,3-Trichloropropane	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
1,2,4-Trimethylbenzene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
1,3,5-Trimethylbenzene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Vinyl chloride	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
m,p-Xylene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
o-Xylene	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Tetrahydrofuran	ND		5.62		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Ethyl ether	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Tert-amyl methyl ether	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Ethyl tert-butyl ether	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
di-Isopropyl ether	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
tert-Butanol	ND		56.2		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
1,4-Dioxane	ND		56.2		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
trans-1,4-Dichloro-2-butene	ND		14.1		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Ethanol	ND		562		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
1,3-Dichloropropene, Total	ND		2.81		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1
Xylenes, Total	ND		8.43		ug/Kg	☼	06/30/25 14:57	06/30/25 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*06/30/25 14:57*	*06/30/25 19:41*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*06/30/25 14:57*	*06/30/25 19:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*06/30/25 14:57*	*06/30/25 19:41*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*	*06/30/25 14:57*	*06/30/25 19:41*	*1*

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**11.5**		0.1		%			06/30/25 10:01	1
Percent Solids (EPA Moisture)	**88.5**		0.1		%			06/30/25 10:01	1

Surrogate Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-27214-1	ATC-101 (0.6-3.0ft)	91	96	116	110
620-27214-2	ATC-102 (0.3-4.5ft)	94	97	105	106
620-27214-3	ATC-103 (0.2-3.0ft)	97	98	100	104
620-27214-4	ATC-104 (0.3-3.0ft)	98	98	99	103
620-27214-5	ATC-105 (0.5-4.0ft)	95	98	102	105
620-27214-6	ATC-106 (0.5-3.0ft)	84	97	109	114
620-27214-6 - RA	ATC-106 (0.5-3.0ft)	86	97	119	115
620-27214-7	ATC-107 (0.2-3.0ft)	94	97	103	105
620-27214-8	ATC-108 (0.2-3.0ft)	94	96	108	107
620-27214-9	ATC-109 (0.8-3.0ft)	97	97	102	105
620-27214-10	ATC-110 (0.3-3.0ft)	96	98	102	106
LCS 620-49849/1-A	Lab Control Sample	103	102	111	107
LCS 620-49906/1-A	Lab Control Sample	103	103	107	105
LCSD 620-49849/2-A	Lab Control Sample Dup	103	102	105	107
LCSD 620-49906/2-A	Lab Control Sample Dup	103	102	105	105
MB 620-49849/3-A	Method Blank	98	98	106	106
MB 620-49906/3-A	Method Blank	98	99	108	107

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-49849/3-A
Matrix: Solid
Analysis Batch: 49817

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49849

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Acetone	ND		50.0		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Acrylonitrile	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Benzene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Bromobenzene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Bromochloromethane	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Bromodichloromethane	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Bromoform	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Bromomethane	ND		10.0		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
2-Butanone (MEK)	ND		10.0		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
n-Butylbenzene	ND		10.0		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
sec-Butylbenzene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
tert-Butylbenzene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Carbon disulfide	ND		10.0		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Carbon tetrachloride	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Chlorobenzene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Chloroethane	ND		10.0		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Chloroform	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Chloromethane	ND		10.0		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
2-Chlorotoluene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
4-Chlorotoluene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Dibromochloromethane	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
1,2-Dibromoethane (EDB)	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Dibromomethane	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
1,2-Dichlorobenzene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
1,3-Dichlorobenzene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
1,4-Dichlorobenzene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Dichlorodifluoromethane (Freon 12)	ND		10.0		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
1,1-Dichloroethane	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
1,2-Dichloroethane	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
1,1-Dichloroethene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
cis-1,2-Dichloroethene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
trans-1,2-Dichloroethene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
1,2-Dichloropropane	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
1,3-Dichloropropane	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
2,2-Dichloropropane	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
1,1-Dichloropropene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
cis-1,3-Dichloropropene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
trans-1,3-Dichloropropene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Ethylbenzene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Hexachlorobutadiene	ND		10.0		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
2-Hexanone (MBK)	ND		10.0		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Isopropylbenzene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
4-Isopropyltoluene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Methyl tert-butyl ether	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Methylene Chloride	ND		10.0		ug/Kg		06/30/25 08:00	06/30/25 11:31	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-49849/3-A
Matrix: Solid
Analysis Batch: 49817

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49849

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
N-Propylbenzene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Styrene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
1,1,1,2-Tetrachloroethane	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
1,1,2,2-Tetrachloroethane	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Tetrachloroethene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Toluene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
1,2,3-Trichlorobenzene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
1,2,4-Trichlorobenzene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
1,3,5-Trichlorobenzene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
1,1,1-Trichloroethane	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
1,1,2-Trichloroethane	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Trichloroethene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Trichlorofluoromethane (Freon 11)	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
1,2,3-Trichloropropane	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
1,2,4-Trimethylbenzene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
1,3,5-Trimethylbenzene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Vinyl chloride	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
m,p-Xylene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
o-Xylene	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Tetrahydrofuran	ND		10.0		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Ethyl ether	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Tert-amyl methyl ether	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Ethyl tert-butyl ether	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
di-Isopropyl ether	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
tert-Butanol	ND		100		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
1,4-Dioxane	ND		100		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
trans-1,4-Dichloro-2-butene	ND		25.0		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Ethanol	ND		1000		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
1,3-Dichloropropene, Total	ND		5.00		ug/Kg		06/30/25 08:00	06/30/25 11:31	1
Xylenes, Total	ND		15.0		ug/Kg		06/30/25 08:00	06/30/25 11:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/30/25 08:00*	*06/30/25 11:31*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*06/30/25 08:00*	*06/30/25 11:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*	*06/30/25 08:00*	*06/30/25 11:31*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*	*06/30/25 08:00*	*06/30/25 11:31*	*1*

Lab Sample ID: LCS 620-49849/1-A
Matrix: Solid
Analysis Batch: 49817

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49849

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,2-Trichlorotrifluoroethane (Freon 113)			20.0	22.76		ug/Kg		114	70 - 130		
Acetone			20.0	13.80	J *-	ug/Kg		69	70 - 130		
Acrylonitrile			20.0	19.79		ug/Kg		99	70 - 130		
Benzene			20.0	21.34		ug/Kg		107	70 - 130		
Bromobenzene			20.0	20.10		ug/Kg		101	70 - 130		

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-49849/1-A
Matrix: Solid
Analysis Batch: 49817

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	20.0	21.96		ug/Kg		110	70 - 130
Bromodichloromethane	20.0	21.73		ug/Kg		109	70 - 130
Bromoform	20.0	19.84		ug/Kg		99	70 - 130
Bromomethane	20.0	21.08		ug/Kg		105	70 - 130
2-Butanone (MEK)	20.0	17.76		ug/Kg		89	70 - 130
n-Butylbenzene	20.0	18.14		ug/Kg		91	70 - 130
sec-Butylbenzene	20.0	20.41		ug/Kg		102	70 - 130
tert-Butylbenzene	20.0	20.74		ug/Kg		104	70 - 130
Carbon disulfide	20.0	21.87		ug/Kg		109	70 - 130
Carbon tetrachloride	20.0	22.48		ug/Kg		112	70 - 130
Chlorobenzene	20.0	20.61		ug/Kg		103	70 - 130
Chloroethane	20.0	19.89		ug/Kg		99	70 - 130
Chloroform	20.0	21.55		ug/Kg		108	70 - 130
Chloromethane	20.0	19.55		ug/Kg		98	70 - 130
2-Chlorotoluene	20.0	20.18		ug/Kg		101	70 - 130
4-Chlorotoluene	20.0	20.42		ug/Kg		102	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	16.66		ug/Kg		83	70 - 130
Dibromochloromethane	20.0	20.46		ug/Kg		102	70 - 130
1,2-Dibromoethane (EDB)	20.0	20.69		ug/Kg		103	70 - 130
Dibromomethane	20.0	21.09		ug/Kg		105	70 - 130
1,2-Dichlorobenzene	20.0	18.89		ug/Kg		94	70 - 130
1,3-Dichlorobenzene	20.0	20.63		ug/Kg		103	70 - 130
1,4-Dichlorobenzene	20.0	19.60		ug/Kg		98	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	15.94		ug/Kg		80	70 - 130
1,1-Dichloroethane	20.0	22.36		ug/Kg		112	70 - 130
1,2-Dichloroethane	20.0	22.70		ug/Kg		113	70 - 130
1,1-Dichloroethene	20.0	21.24		ug/Kg		106	70 - 130
cis-1,2-Dichloroethene	20.0	20.61		ug/Kg		103	70 - 130
trans-1,2-Dichloroethene	20.0	20.68		ug/Kg		103	70 - 130
1,2-Dichloropropane	20.0	20.65		ug/Kg		103	70 - 130
1,3-Dichloropropane	20.0	21.07		ug/Kg		105	70 - 130
2,2-Dichloropropane	20.0	21.32		ug/Kg		107	70 - 130
1,1-Dichloropropene	20.0	21.07		ug/Kg		105	70 - 130
cis-1,3-Dichloropropene	20.0	20.16		ug/Kg		101	70 - 130
trans-1,3-Dichloropropene	20.0	20.87		ug/Kg		104	70 - 130
Ethylbenzene	20.0	20.21		ug/Kg		101	70 - 130
Hexachlorobutadiene	20.0	19.34		ug/Kg		97	70 - 130
2-Hexanone (MBK)	20.0	15.15		ug/Kg		76	70 - 130
Isopropylbenzene	20.0	19.94		ug/Kg		100	70 - 130
4-Isopropyltoluene	20.0	18.61		ug/Kg		93	70 - 130
Methyl tert-butyl ether	20.0	19.34		ug/Kg		97	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	17.46		ug/Kg		87	70 - 130
Methylene Chloride	20.0	22.56		ug/Kg		113	70 - 130
Naphthalene	20.0	15.16		ug/Kg		76	70 - 130
N-Propylbenzene	20.0	20.36		ug/Kg		102	70 - 130
Styrene	20.0	19.66		ug/Kg		98	70 - 130
1,1,1,2-Tetrachloroethane	20.0	20.53		ug/Kg		103	70 - 130
1,1,2,2-Tetrachloroethane	20.0	20.02		ug/Kg		100	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-49849/1-A
Matrix: Solid
Analysis Batch: 49817

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49849

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tetrachloroethene			20.0	20.90		ug/Kg		105	70 - 130		
Toluene			20.0	21.12		ug/Kg		106	70 - 130		
1,2,3-Trichlorobenzene			20.0	19.37		ug/Kg		97	70 - 130		
1,2,4-Trichlorobenzene			20.0	19.14		ug/Kg		96	70 - 130		
1,3,5-Trichlorobenzene			20.0	18.67		ug/Kg		93	70 - 130		
1,1,1-Trichloroethane			20.0	22.39		ug/Kg		112	70 - 130		
1,1,2-Trichloroethane			20.0	21.10		ug/Kg		106	70 - 130		
Trichloroethene			20.0	22.23		ug/Kg		111	70 - 130		
Trichlorofluoromethane (Freon 11)			20.0	22.38		ug/Kg		112	70 - 130		
1,2,3-Trichloropropane			20.0	20.59		ug/Kg		103	70 - 130		
1,2,4-Trimethylbenzene			20.0	19.91		ug/Kg		100	70 - 130		
1,3,5-Trimethylbenzene			20.0	20.43		ug/Kg		102	70 - 130		
Vinyl chloride			20.0	18.70		ug/Kg		93	70 - 130		
m,p-Xylene			20.0	19.84		ug/Kg		99	70 - 130		
o-Xylene			20.0	19.37		ug/Kg		97	70 - 130		
Tetrahydrofuran			20.0	16.71		ug/Kg		84	70 - 130		
Ethyl ether			20.0	20.82		ug/Kg		104	70 - 130		
Tert-amyl methyl ether			20.0	18.84		ug/Kg		94	70 - 130		
Ethyl tert-butyl ether			20.0	18.98		ug/Kg		95	70 - 130		
di-Isopropyl ether			20.0	19.59		ug/Kg		98	70 - 130		
tert-Butanol			200	169.8		ug/Kg		85	70 - 130		
1,4-Dioxane			200	168.4		ug/Kg		84	70 - 130		
trans-1,4-Dichloro-2-butene			20.0	20.29	J	ug/Kg		101	70 - 130		
Ethanol			400	395.1	J	ug/Kg		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 620-49849/2-A
Matrix: Solid
Analysis Batch: 49817

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49849

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			20.0	21.85		ug/Kg		109	70 - 130	4	30
Acetone			20.0	12.28	J *-	ug/Kg		61	70 - 130	12	30
Acrylonitrile			20.0	19.90		ug/Kg		99	70 - 130	1	30
Benzene			20.0	20.59		ug/Kg		103	70 - 130	4	30
Bromobenzene			20.0	19.55		ug/Kg		98	70 - 130	3	30
Bromochloromethane			20.0	21.17		ug/Kg		106	70 - 130	4	30
Bromodichloromethane			20.0	20.96		ug/Kg		105	70 - 130	4	30
Bromoform			20.0	19.18		ug/Kg		96	70 - 130	3	30
Bromomethane			20.0	20.77		ug/Kg		104	70 - 130	2	30
2-Butanone (MEK)			20.0	17.63		ug/Kg		88	70 - 130	1	30
n-Butylbenzene			20.0	18.46		ug/Kg		92	70 - 130	2	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-49849/2-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 49817
Prep Batch: 49849

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene			20.0	20.04		ug/Kg		100	70 - 130	2	30
tert-Butylbenzene			20.0	20.54		ug/Kg		103	70 - 130	1	30
Carbon disulfide			20.0	21.18		ug/Kg		106	70 - 130	3	30
Carbon tetrachloride			20.0	22.12		ug/Kg		111	70 - 130	2	30
Chlorobenzene			20.0	19.87		ug/Kg		99	70 - 130	4	30
Chloroethane			20.0	18.49		ug/Kg		92	70 - 130	7	30
Chloroform			20.0	21.32		ug/Kg		107	70 - 130	1	30
Chloromethane			20.0	18.75		ug/Kg		94	70 - 130	4	30
2-Chlorotoluene			20.0	19.95		ug/Kg		100	70 - 130	1	30
4-Chlorotoluene			20.0	20.07		ug/Kg		100	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			20.0	16.50		ug/Kg		82	70 - 130	1	30
Dibromochloromethane			20.0	19.99		ug/Kg		100	70 - 130	2	30
1,2-Dibromoethane (EDB)			20.0	20.04		ug/Kg		100	70 - 130	3	30
Dibromomethane			20.0	20.56		ug/Kg		103	70 - 130	3	30
1,2-Dichlorobenzene			20.0	18.91		ug/Kg		95	70 - 130	0	30
1,3-Dichlorobenzene			20.0	20.18		ug/Kg		101	70 - 130	2	30
1,4-Dichlorobenzene			20.0	19.02		ug/Kg		95	70 - 130	3	30
Dichlorodifluoromethane (Freon 12)			20.0	15.45		ug/Kg		77	70 - 130	3	30
1,1-Dichloroethane			20.0	21.65		ug/Kg		108	70 - 130	3	30
1,2-Dichloroethane			20.0	21.59		ug/Kg		108	70 - 130	5	30
1,1-Dichloroethene			20.0	20.75		ug/Kg		104	70 - 130	2	30
cis-1,2-Dichloroethene			20.0	19.45		ug/Kg		97	70 - 130	6	30
trans-1,2-Dichloroethene			20.0	20.68		ug/Kg		103	70 - 130	0	30
1,2-Dichloropropane			20.0	20.57		ug/Kg		103	70 - 130	0	30
1,3-Dichloropropane			20.0	20.29		ug/Kg		101	70 - 130	4	30
2,2-Dichloropropane			20.0	20.79		ug/Kg		104	70 - 130	3	30
1,1-Dichloropropene			20.0	20.71		ug/Kg		104	70 - 130	2	30
cis-1,3-Dichloropropene			20.0	19.72		ug/Kg		99	70 - 130	2	30
trans-1,3-Dichloropropene			20.0	20.20		ug/Kg		101	70 - 130	3	30
Ethylbenzene			20.0	19.96		ug/Kg		100	70 - 130	1	30
Hexachlorobutadiene			20.0	19.82		ug/Kg		99	70 - 130	2	30
2-Hexanone (MBK)			20.0	14.59		ug/Kg		73	70 - 130	4	30
Isopropylbenzene			20.0	19.59		ug/Kg		98	70 - 130	2	30
4-Isopropyltoluene			20.0	18.86		ug/Kg		94	70 - 130	1	30
Methyl tert-butyl ether			20.0	19.17		ug/Kg		96	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)			20.0	16.97		ug/Kg		85	70 - 130	3	30
Methylene Chloride			20.0	21.49		ug/Kg		107	70 - 130	5	30
Naphthalene			20.0	16.11		ug/Kg		81	70 - 130	6	30
N-Propylbenzene			20.0	20.02		ug/Kg		100	70 - 130	2	30
Styrene			20.0	19.11		ug/Kg		96	70 - 130	3	30
1,1,1,2-Tetrachloroethane			20.0	20.05		ug/Kg		100	70 - 130	2	30
1,1,2,2-Tetrachloroethane			20.0	19.64		ug/Kg		98	70 - 130	2	30
Tetrachloroethene			20.0	20.78		ug/Kg		104	70 - 130	1	30
Toluene			20.0	20.56		ug/Kg		103	70 - 130	3	30
1,2,3-Trichlorobenzene			20.0	19.84		ug/Kg		99	70 - 130	2	30
1,2,4-Trichlorobenzene			20.0	19.35		ug/Kg		97	70 - 130	1	30
1,3,5-Trichlorobenzene			20.0	18.76		ug/Kg		94	70 - 130	1	30
1,1,1-Trichloroethane			20.0	22.02		ug/Kg		110	70 - 130	2	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-49849/2-A
Matrix: Solid
Analysis Batch: 49817

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49849

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane			20.0	20.39		ug/Kg		102	70 - 130	3	30
Trichloroethene			20.0	21.37		ug/Kg		107	70 - 130	4	30
Trichlorofluoromethane (Freon 11)			20.0	21.65		ug/Kg		108	70 - 130	3	30
1,2,3-Trichloropropane			20.0	19.95		ug/Kg		100	70 - 130	3	30
1,2,4-Trimethylbenzene			20.0	19.61		ug/Kg		98	70 - 130	2	30
1,3,5-Trimethylbenzene			20.0	20.27		ug/Kg		101	70 - 130	1	30
Vinyl chloride			20.0	17.89		ug/Kg		89	70 - 130	4	30
m,p-Xylene			20.0	19.35		ug/Kg		97	70 - 130	2	30
o-Xylene			20.0	19.13		ug/Kg		96	70 - 130	1	30
Tetrahydrofuran			20.0	16.56		ug/Kg		83	70 - 130	1	30
Ethyl ether			20.0	20.26		ug/Kg		101	70 - 130	3	30
Tert-amyl methyl ether			20.0	18.80		ug/Kg		94	70 - 130	0	30
Ethyl tert-butyl ether			20.0	18.66		ug/Kg		93	70 - 130	2	30
di-Isopropyl ether			20.0	19.43		ug/Kg		97	70 - 130	1	30
tert-Butanol			200	179.4		ug/Kg		90	70 - 130	6	30
1,4-Dioxane			200	172.4		ug/Kg		86	70 - 130	2	30
trans-1,4-Dichloro-2-butene			20.0	20.09	J	ug/Kg		100	70 - 130	1	30
Ethanol			400	381.1	J	ug/Kg		95	70 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*

Lab Sample ID: MB 620-49906/3-A
Matrix: Solid
Analysis Batch: 49886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49906

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Acetone	ND		50.0		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Acrylonitrile	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Benzene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Bromobenzene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Bromochloromethane	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Bromodichloromethane	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Bromoform	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Bromomethane	ND		10.0		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
2-Butanone (MEK)	ND		10.0		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
n-Butylbenzene	ND		10.0		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
sec-Butylbenzene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
tert-Butylbenzene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Carbon disulfide	ND		10.0		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Carbon tetrachloride	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Chlorobenzene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Chloroethane	ND		10.0		ug/Kg		07/01/25 09:00	07/01/25 11:55	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-49906/3-A
Matrix: Solid
Analysis Batch: 49886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49906

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Chloromethane	ND		10.0		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
2-Chlorotoluene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
4-Chlorotoluene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Dibromochloromethane	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
1,2-Dibromoethane (EDB)	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Dibromomethane	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
1,2-Dichlorobenzene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
1,3-Dichlorobenzene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
1,4-Dichlorobenzene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Dichlorodifluoromethane (Freon 12)	ND		10.0		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
1,1-Dichloroethane	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
1,2-Dichloroethane	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
1,1-Dichloroethene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
cis-1,2-Dichloroethene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
trans-1,2-Dichloroethene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
1,2-Dichloropropane	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
1,3-Dichloropropane	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
2,2-Dichloropropane	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
1,1-Dichloropropene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
cis-1,3-Dichloropropene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
trans-1,3-Dichloropropene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Ethylbenzene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Hexachlorobutadiene	ND		10.0		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
2-Hexanone (MBK)	ND		10.0		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Isopropylbenzene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
4-Isopropyltoluene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Methyl tert-butyl ether	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Methylene Chloride	ND		10.0		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Naphthalene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
N-Propylbenzene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Styrene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
1,1,1,2-Tetrachloroethane	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
1,1,2,2-Tetrachloroethane	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Tetrachloroethene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Toluene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
1,2,3-Trichlorobenzene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
1,2,4-Trichlorobenzene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
1,3,5-Trichlorobenzene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
1,1,1-Trichloroethane	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
1,1,2-Trichloroethane	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Trichloroethene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Trichlorofluoromethane (Freon 11)	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
1,2,3-Trichloropropane	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
1,2,4-Trimethylbenzene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
1,3,5-Trimethylbenzene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Vinyl chloride	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-49906/3-A
Matrix: Solid
Analysis Batch: 49886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49906

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
o-Xylene	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Tetrahydrofuran	ND		10.0		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Ethyl ether	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Tert-amyl methyl ether	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Ethyl tert-butyl ether	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
di-Isopropyl ether	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
tert-Butanol	ND		100		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
1,4-Dioxane	ND		100		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
trans-1,4-Dichloro-2-butene	ND		25.0		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Ethanol	ND		1000		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
1,3-Dichloropropene, Total	ND		5.00		ug/Kg		07/01/25 09:00	07/01/25 11:55	1
Xylenes, Total	ND		15.0		ug/Kg		07/01/25 09:00	07/01/25 11:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*07/01/25 09:00*	*07/01/25 11:55*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*07/01/25 09:00*	*07/01/25 11:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*	*07/01/25 09:00*	*07/01/25 11:55*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*	*07/01/25 09:00*	*07/01/25 11:55*	*1*

Lab Sample ID: LCS 620-49906/1-A
Matrix: Solid
Analysis Batch: 49886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	23.26		ug/Kg		116	70 - 130
Acetone	20.0	15.40	J	ug/Kg		77	70 - 130
Acrylonitrile	20.0	20.31		ug/Kg		102	70 - 130
Benzene	20.0	22.01		ug/Kg		110	70 - 130
Bromobenzene	20.0	20.80		ug/Kg		104	70 - 130
Bromochloromethane	20.0	22.73		ug/Kg		114	70 - 130
Bromodichloromethane	20.0	22.51		ug/Kg		113	70 - 130
Bromoform	20.0	20.35		ug/Kg		102	70 - 130
Bromomethane	20.0	21.35		ug/Kg		107	70 - 130
2-Butanone (MEK)	20.0	18.43		ug/Kg		92	70 - 130
n-Butylbenzene	20.0	19.12		ug/Kg		96	70 - 130
sec-Butylbenzene	20.0	21.29		ug/Kg		106	70 - 130
tert-Butylbenzene	20.0	21.71		ug/Kg		109	70 - 130
Carbon disulfide	20.0	22.31		ug/Kg		112	70 - 130
Carbon tetrachloride	20.0	23.60		ug/Kg		118	70 - 130
Chlorobenzene	20.0	21.13		ug/Kg		106	70 - 130
Chloroethane	20.0	19.26		ug/Kg		96	70 - 130
Chloroform	20.0	23.05		ug/Kg		115	70 - 130
Chloromethane	20.0	17.57		ug/Kg		88	70 - 130
2-Chlorotoluene	20.0	20.89		ug/Kg		104	70 - 130
4-Chlorotoluene	20.0	21.18		ug/Kg		106	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	17.30		ug/Kg		87	70 - 130
Dibromochloromethane	20.0	21.55		ug/Kg		108	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-49906/1-A
Matrix: Solid
Analysis Batch: 49886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	20.0	21.06		ug/Kg		105	70 - 130
Dibromomethane	20.0	21.96		ug/Kg		110	70 - 130
1,2-Dichlorobenzene	20.0	19.37		ug/Kg		97	70 - 130
1,3-Dichlorobenzene	20.0	21.43		ug/Kg		107	70 - 130
1,4-Dichlorobenzene	20.0	19.90		ug/Kg		99	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	12.55	*-	ug/Kg		63	70 - 130
1,1-Dichloroethane	20.0	22.91		ug/Kg		115	70 - 130
1,2-Dichloroethane	20.0	23.77		ug/Kg		119	70 - 130
1,1-Dichloroethene	20.0	21.70		ug/Kg		108	70 - 130
cis-1,2-Dichloroethene	20.0	21.15		ug/Kg		106	70 - 130
trans-1,2-Dichloroethene	20.0	21.68		ug/Kg		108	70 - 130
1,2-Dichloropropane	20.0	21.31		ug/Kg		107	70 - 130
1,3-Dichloropropane	20.0	21.47		ug/Kg		107	70 - 130
2,2-Dichloropropane	20.0	22.32		ug/Kg		112	70 - 130
1,1-Dichloropropene	20.0	21.81		ug/Kg		109	70 - 130
cis-1,3-Dichloropropene	20.0	20.67		ug/Kg		103	70 - 130
trans-1,3-Dichloropropene	20.0	21.70		ug/Kg		109	70 - 130
Ethylbenzene	20.0	21.37		ug/Kg		107	70 - 130
Hexachlorobutadiene	20.0	19.96		ug/Kg		100	70 - 130
2-Hexanone (MBK)	20.0	16.37		ug/Kg		82	70 - 130
Isopropylbenzene	20.0	20.58		ug/Kg		103	70 - 130
4-Isopropyltoluene	20.0	19.51		ug/Kg		98	70 - 130
Methyl tert-butyl ether	20.0	19.91		ug/Kg		100	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	18.53		ug/Kg		93	70 - 130
Methylene Chloride	20.0	23.10		ug/Kg		115	70 - 130
Naphthalene	20.0	14.33		ug/Kg		72	70 - 130
N-Propylbenzene	20.0	21.40		ug/Kg		107	70 - 130
Styrene	20.0	20.25		ug/Kg		101	70 - 130
1,1,1,2-Tetrachloroethane	20.0	21.25		ug/Kg		106	70 - 130
1,1,2,2-Tetrachloroethane	20.0	20.37		ug/Kg		102	70 - 130
Tetrachloroethene	20.0	21.85		ug/Kg		109	70 - 130
Toluene	20.0	21.98		ug/Kg		110	70 - 130
1,2,3-Trichlorobenzene	20.0	19.04		ug/Kg		95	70 - 130
1,2,4-Trichlorobenzene	20.0	19.50		ug/Kg		97	70 - 130
1,3,5-Trichlorobenzene	20.0	19.97		ug/Kg		100	70 - 130
1,1,1-Trichloroethane	20.0	23.16		ug/Kg		116	70 - 130
1,1,2-Trichloroethane	20.0	21.79		ug/Kg		109	70 - 130
Trichloroethene	20.0	22.63		ug/Kg		113	70 - 130
Trichlorofluoromethane (Freon 11)	20.0	22.88		ug/Kg		114	70 - 130
1,2,3-Trichloropropane	20.0	20.81		ug/Kg		104	70 - 130
1,2,4-Trimethylbenzene	20.0	20.83		ug/Kg		104	70 - 130
1,3,5-Trimethylbenzene	20.0	21.33		ug/Kg		107	70 - 130
Vinyl chloride	20.0	17.75		ug/Kg		89	70 - 130
m,p-Xylene	20.0	20.56		ug/Kg		103	70 - 130
o-Xylene	20.0	19.95		ug/Kg		100	70 - 130
Tetrahydrofuran	20.0	16.99		ug/Kg		85	70 - 130
Ethyl ether	20.0	20.95		ug/Kg		105	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-49906/1-A
Matrix: Solid
Analysis Batch: 49886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49906

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tert-amyl methyl ether			20.0	19.44		ug/Kg		97	70 - 130		
Ethyl tert-butyl ether			20.0	19.65		ug/Kg		98	70 - 130		
di-Isopropyl ether			20.0	20.00		ug/Kg		100	70 - 130		
tert-Butanol			200	178.1		ug/Kg		89	70 - 130		
1,4-Dioxane			200	155.9		ug/Kg		78	70 - 130		
trans-1,4-Dichloro-2-butene			20.0	20.44	J	ug/Kg		102	70 - 130		
Ethanol			400	314.6	J	ug/Kg		79	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 620-49906/2-A
Matrix: Solid
Analysis Batch: 49886

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49906

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			20.0	24.17		ug/Kg		121	70 - 130	4	30
Acetone			20.0	15.18	J	ug/Kg		76	70 - 130	1	30
Acrylonitrile			20.0	20.10		ug/Kg		101	70 - 130	1	30
Benzene			20.0	22.49		ug/Kg		112	70 - 130	2	30
Bromobenzene			20.0	21.25		ug/Kg		106	70 - 130	2	30
Bromochloromethane			20.0	23.05		ug/Kg		115	70 - 130	1	30
Bromodichloromethane			20.0	23.21		ug/Kg		116	70 - 130	3	30
Bromoform			20.0	20.81		ug/Kg		104	70 - 130	2	30
Bromomethane			20.0	21.56		ug/Kg		108	70 - 130	1	30
2-Butanone (MEK)			20.0	19.83		ug/Kg		99	70 - 130	7	30
n-Butylbenzene			20.0	20.48		ug/Kg		102	70 - 130	7	30
sec-Butylbenzene			20.0	22.19		ug/Kg		111	70 - 130	4	30
tert-Butylbenzene			20.0	22.72		ug/Kg		114	70 - 130	5	30
Carbon disulfide			20.0	22.38		ug/Kg		112	70 - 130	0	30
Carbon tetrachloride			20.0	24.00		ug/Kg		120	70 - 130	2	30
Chlorobenzene			20.0	21.48		ug/Kg		107	70 - 130	2	30
Chloroethane			20.0	19.62		ug/Kg		98	70 - 130	2	30
Chloroform			20.0	22.83		ug/Kg		114	70 - 130	1	30
Chloromethane			20.0	17.55		ug/Kg		88	70 - 130	0	30
2-Chlorotoluene			20.0	21.75		ug/Kg		109	70 - 130	4	30
4-Chlorotoluene			20.0	21.82		ug/Kg		109	70 - 130	3	30
1,2-Dibromo-3-Chloropropane			20.0	18.33		ug/Kg		92	70 - 130	6	30
Dibromochloromethane			20.0	22.04		ug/Kg		110	70 - 130	2	30
1,2-Dibromoethane (EDB)			20.0	21.76		ug/Kg		109	70 - 130	3	30
Dibromomethane			20.0	22.34		ug/Kg		112	70 - 130	2	30
1,2-Dichlorobenzene			20.0	20.37		ug/Kg		102	70 - 130	5	30
1,3-Dichlorobenzene			20.0	22.04		ug/Kg		110	70 - 130	3	30
1,4-Dichlorobenzene			20.0	21.18		ug/Kg		106	70 - 130	6	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-49906/2-A
Matrix: Solid
Analysis Batch: 49886

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49906

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dichlorodifluoromethane (Freon 12)			20.0	12.50	*-	ug/Kg		62	70 - 130	0	30
1,1-Dichloroethane			20.0	23.42		ug/Kg		117	70 - 130	2	30
1,2-Dichloroethane			20.0	23.35		ug/Kg		117	70 - 130	2	30
1,1-Dichloroethene			20.0	22.23		ug/Kg		111	70 - 130	2	30
cis-1,2-Dichloroethene			20.0	22.10		ug/Kg		110	70 - 130	4	30
trans-1,2-Dichloroethene			20.0	22.19		ug/Kg		111	70 - 130	2	30
1,2-Dichloropropane			20.0	22.10		ug/Kg		111	70 - 130	4	30
1,3-Dichloropropane			20.0	21.82		ug/Kg		109	70 - 130	2	30
2,2-Dichloropropane			20.0	22.95		ug/Kg		115	70 - 130	3	30
1,1-Dichloropropene			20.0	22.68		ug/Kg		113	70 - 130	4	30
cis-1,3-Dichloropropene			20.0	21.65		ug/Kg		108	70 - 130	5	30
trans-1,3-Dichloropropene			20.0	22.29		ug/Kg		111	70 - 130	3	30
Ethylbenzene			20.0	21.67		ug/Kg		108	70 - 130	1	30
Hexachlorobutadiene			20.0	21.84		ug/Kg		109	70 - 130	9	30
2-Hexanone (MBK)			20.0	17.04		ug/Kg		85	70 - 130	4	30
Isopropylbenzene			20.0	21.47		ug/Kg		107	70 - 130	4	30
4-Isopropyltoluene			20.0	20.77		ug/Kg		104	70 - 130	6	30
Methyl tert-butyl ether			20.0	20.76		ug/Kg		104	70 - 130	4	30
4-Methyl-2-pentanone (MIBK)			20.0	19.17		ug/Kg		96	70 - 130	3	30
Methylene Chloride			20.0	23.90		ug/Kg		119	70 - 130	3	30
Naphthalene			20.0	15.72		ug/Kg		79	70 - 130	9	30
N-Propylbenzene			20.0	22.18		ug/Kg		111	70 - 130	4	30
Styrene			20.0	20.71		ug/Kg		104	70 - 130	2	30
1,1,1,2-Tetrachloroethane			20.0	21.57		ug/Kg		108	70 - 130	2	30
1,1,2,2-Tetrachloroethane			20.0	20.71		ug/Kg		104	70 - 130	2	30
Tetrachloroethene			20.0	22.36		ug/Kg		112	70 - 130	2	30
Toluene			20.0	22.30		ug/Kg		111	70 - 130	1	30
1,2,3-Trichlorobenzene			20.0	20.87		ug/Kg		104	70 - 130	9	30
1,2,4-Trichlorobenzene			20.0	21.04		ug/Kg		105	70 - 130	8	30
1,3,5-Trichlorobenzene			20.0	21.35		ug/Kg		107	70 - 130	7	30
1,1,1-Trichloroethane			20.0	24.03		ug/Kg		120	70 - 130	4	30
1,1,2-Trichloroethane			20.0	22.02		ug/Kg		110	70 - 130	1	30
Trichloroethene			20.0	23.73		ug/Kg		119	70 - 130	5	30
Trichlorofluoromethane (Freon 11)			20.0	22.97		ug/Kg		115	70 - 130	0	30
1,2,3-Trichloropropane			20.0	21.35		ug/Kg		107	70 - 130	3	30
1,2,4-Trimethylbenzene			20.0	21.54		ug/Kg		108	70 - 130	3	30
1,3,5-Trimethylbenzene			20.0	22.14		ug/Kg		111	70 - 130	4	30
Vinyl chloride			20.0	17.92		ug/Kg		90	70 - 130	1	30
m,p-Xylene			20.0	21.26		ug/Kg		106	70 - 130	3	30
o-Xylene			20.0	20.74		ug/Kg		104	70 - 130	4	30
Tetrahydrofuran			20.0	17.35		ug/Kg		87	70 - 130	2	30
Ethyl ether			20.0	21.60		ug/Kg		108	70 - 130	3	30
Tert-amyl methyl ether			20.0	20.35		ug/Kg		102	70 - 130	5	30
Ethyl tert-butyl ether			20.0	20.67		ug/Kg		103	70 - 130	5	30
di-Isopropyl ether			20.0	20.82		ug/Kg		104	70 - 130	4	30
tert-Butanol			200	186.1		ug/Kg		93	70 - 130	4	30
1,4-Dioxane			200	161.8		ug/Kg		81	70 - 130	4	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-49906/2-A
Matrix: Solid
Analysis Batch: 49886

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49906

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,4-Dichloro-2-butene			20.0	21.18	J	ug/Kg		106	70 - 130	4	30
Ethanol			400	336.1	J	ug/Kg		84	70 - 130	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*

GC/MS VOA

Pre Prep Batch: 49799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-27214-1	ATC-101 (0.6-3.0ft)	Total/NA	Solid	Frozen Preserve	
620-27214-2	ATC-102 (0.3-4.5ft)	Total/NA	Solid	Frozen Preserve	
620-27214-3	ATC-103 (0.2-3.0ft)	Total/NA	Solid	Frozen Preserve	
620-27214-4	ATC-104 (0.3-3.0ft)	Total/NA	Solid	Frozen Preserve	
620-27214-5	ATC-105 (0.5-4.0ft)	Total/NA	Solid	Frozen Preserve	
620-27214-6 - RA	ATC-106 (0.5-3.0ft)	Total/NA	Solid	Frozen Preserve	
620-27214-6	ATC-106 (0.5-3.0ft)	Total/NA	Solid	Frozen Preserve	
620-27214-7	ATC-107 (0.2-3.0ft)	Total/NA	Solid	Frozen Preserve	
620-27214-8	ATC-108 (0.2-3.0ft)	Total/NA	Solid	Frozen Preserve	
620-27214-9	ATC-109 (0.8-3.0ft)	Total/NA	Solid	Frozen Preserve	
620-27214-10	ATC-110 (0.3-3.0ft)	Total/NA	Solid	Frozen Preserve	

Analysis Batch: 49817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-27214-2	ATC-102 (0.3-4.5ft)	Total/NA	Solid	8260C	49849
620-27214-3	ATC-103 (0.2-3.0ft)	Total/NA	Solid	8260C	49849
620-27214-4	ATC-104 (0.3-3.0ft)	Total/NA	Solid	8260C	49849
620-27214-5	ATC-105 (0.5-4.0ft)	Total/NA	Solid	8260C	49849
620-27214-6	ATC-106 (0.5-3.0ft)	Total/NA	Solid	8260C	49849
620-27214-7	ATC-107 (0.2-3.0ft)	Total/NA	Solid	8260C	49849
620-27214-8	ATC-108 (0.2-3.0ft)	Total/NA	Solid	8260C	49849
620-27214-9	ATC-109 (0.8-3.0ft)	Total/NA	Solid	8260C	49849
620-27214-10	ATC-110 (0.3-3.0ft)	Total/NA	Solid	8260C	49849
MB 620-49849/3-A	Method Blank	Total/NA	Solid	8260C	49849
LCS 620-49849/1-A	Lab Control Sample	Total/NA	Solid	8260C	49849
LCSD 620-49849/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	49849

Prep Batch: 49849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-27214-2	ATC-102 (0.3-4.5ft)	Total/NA	Solid	5035	49799
620-27214-3	ATC-103 (0.2-3.0ft)	Total/NA	Solid	5035	49799
620-27214-4	ATC-104 (0.3-3.0ft)	Total/NA	Solid	5035	49799
620-27214-5	ATC-105 (0.5-4.0ft)	Total/NA	Solid	5035	49799
620-27214-6	ATC-106 (0.5-3.0ft)	Total/NA	Solid	5035	49799
620-27214-7	ATC-107 (0.2-3.0ft)	Total/NA	Solid	5035	49799
620-27214-8	ATC-108 (0.2-3.0ft)	Total/NA	Solid	5035	49799
620-27214-9	ATC-109 (0.8-3.0ft)	Total/NA	Solid	5035	49799
620-27214-10	ATC-110 (0.3-3.0ft)	Total/NA	Solid	5035	49799
MB 620-49849/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-49849/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-49849/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC/MS VOA

Analysis Batch: 49886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-27214-1	ATC-101 (0.6-3.0ft)	Total/NA	Solid	8260C	49906
620-27214-6 - RA	ATC-106 (0.5-3.0ft)	Total/NA	Solid	8260C	49906
MB 620-49906/3-A	Method Blank	Total/NA	Solid	8260C	49906
LCS 620-49906/1-A	Lab Control Sample	Total/NA	Solid	8260C	49906
LCSD 620-49906/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	49906

Prep Batch: 49906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-27214-1	ATC-101 (0.6-3.0ft)	Total/NA	Solid	5035	49799
620-27214-6 - RA	ATC-106 (0.5-3.0ft)	Total/NA	Solid	5035	49799
MB 620-49906/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-49906/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-49906/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

General Chemistry

Analysis Batch: 49834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-27214-1	ATC-101 (0.6-3.0ft)	Total/NA	Solid	Moisture	
620-27214-2	ATC-102 (0.3-4.5ft)	Total/NA	Solid	Moisture	
620-27214-3	ATC-103 (0.2-3.0ft)	Total/NA	Solid	Moisture	
620-27214-4	ATC-104 (0.3-3.0ft)	Total/NA	Solid	Moisture	
620-27214-5	ATC-105 (0.5-4.0ft)	Total/NA	Solid	Moisture	
620-27214-6	ATC-106 (0.5-3.0ft)	Total/NA	Solid	Moisture	
620-27214-7	ATC-107 (0.2-3.0ft)	Total/NA	Solid	Moisture	
620-27214-8	ATC-108 (0.2-3.0ft)	Total/NA	Solid	Moisture	
620-27214-9	ATC-109 (0.8-3.0ft)	Total/NA	Solid	Moisture	
620-27214-10	ATC-110 (0.3-3.0ft)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-101 (0.6-3.0ft)
Lab Sample ID: 620-27214-1
Date Collected: 06/26/25 09:00
Matrix: Solid
Date Received: 06/27/25 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	49834	SRC	EET RI	06/30/25 09:58

Client Sample ID: ATC-101 (0.6-3.0ft)
Lab Sample ID: 620-27214-1
Date Collected: 06/26/25 09:00
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			49799	NRH	EET RI	06/27/25 18:31
Total/NA	Prep	5035			49906	CLR	EET RI	07/01/25 12:56
Total/NA	Analysis	8260C		1	49886	CLR	EET RI	07/01/25 14:32

Client Sample ID: ATC-102 (0.3-4.5ft)
Lab Sample ID: 620-27214-2
Date Collected: 06/26/25 13:00
Matrix: Solid
Date Received: 06/27/25 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	49834	SRC	EET RI	06/30/25 09:58

Client Sample ID: ATC-102 (0.3-4.5ft)
Lab Sample ID: 620-27214-2
Date Collected: 06/26/25 13:00
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			49799	NRH	EET RI	06/27/25 18:31
Total/NA	Prep	5035			49849	CLR	EET RI	06/30/25 14:57
Total/NA	Analysis	8260C		1	49817	CLR	EET RI	06/30/25 16:05

Client Sample ID: ATC-103 (0.2-3.0ft)
Lab Sample ID: 620-27214-3
Date Collected: 06/26/25 09:30
Matrix: Solid
Date Received: 06/27/25 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	49834	SRC	EET RI	06/30/25 09:58

Client Sample ID: ATC-103 (0.2-3.0ft)
Lab Sample ID: 620-27214-3
Date Collected: 06/26/25 09:30
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			49799	NRH	EET RI	06/27/25 18:31
Total/NA	Prep	5035			49849	CLR	EET RI	06/30/25 14:57
Total/NA	Analysis	8260C		1	49817	CLR	EET RI	06/30/25 16:32

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-104 (0.3-3.0ft)
Lab Sample ID: 620-27214-4
Date Collected: 06/26/25 09:50
Matrix: Solid
Date Received: 06/27/25 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	49834	SRC	EET RI	06/30/25 09:58

Client Sample ID: ATC-104 (0.3-3.0ft)
Lab Sample ID: 620-27214-4
Date Collected: 06/26/25 09:50
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			49799	NRH	EET RI	06/27/25 18:31
Total/NA	Prep	5035			49849	CLR	EET RI	06/30/25 14:57
Total/NA	Analysis	8260C		1	49817	CLR	EET RI	06/30/25 16:59

Client Sample ID: ATC-105 (0.5-4.0ft)
Lab Sample ID: 620-27214-5
Date Collected: 06/26/25 12:30
Matrix: Solid
Date Received: 06/27/25 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	49834	SRC	EET RI	06/30/25 09:58

Client Sample ID: ATC-105 (0.5-4.0ft)
Lab Sample ID: 620-27214-5
Date Collected: 06/26/25 12:30
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			49799	NRH	EET RI	06/27/25 18:31
Total/NA	Prep	5035			49849	CLR	EET RI	06/30/25 14:57
Total/NA	Analysis	8260C		1	49817	CLR	EET RI	06/30/25 17:25

Client Sample ID: ATC-106 (0.5-3.0ft)
Lab Sample ID: 620-27214-6
Date Collected: 06/26/25 11:40
Matrix: Solid
Date Received: 06/27/25 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	49834	SRC	EET RI	06/30/25 10:01

Client Sample ID: ATC-106 (0.5-3.0ft)
Lab Sample ID: 620-27214-6
Date Collected: 06/26/25 11:40
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			49799	NRH	EET RI	06/27/25 18:31
Total/NA	Prep	5035			49849	CLR	EET RI	06/30/25 14:57
Total/NA	Analysis	8260C		1	49817	CLR	EET RI	06/30/25 17:53
Total/NA	Pre Prep	Frozen Preserve	RA		49799	NRH	EET RI	06/27/25 18:31
Total/NA	Prep	5035	RA		49906	CLR	EET RI	07/01/25 12:56
Total/NA	Analysis	8260C	RA	1	49886	CLR	EET RI	07/01/25 15:01

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-107 (0.2-3.0ft)
Lab Sample ID: 620-27214-7
Date Collected: 06/26/25 10:20
Matrix: Solid
Date Received: 06/27/25 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	49834	SRC	EET RI	06/30/25 10:01

Client Sample ID: ATC-107 (0.2-3.0ft)
Lab Sample ID: 620-27214-7
Date Collected: 06/26/25 10:20
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			49799	NRH	EET RI	06/27/25 18:31
Total/NA	Prep	5035			49849	CLR	EET RI	06/30/25 14:57
Total/NA	Analysis	8260C		1	49817	CLR	EET RI	06/30/25 18:21

Client Sample ID: ATC-108 (0.2-3.0ft)
Lab Sample ID: 620-27214-8
Date Collected: 06/26/25 10:40
Matrix: Solid
Date Received: 06/27/25 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	49834	SRC	EET RI	06/30/25 10:01

Client Sample ID: ATC-108 (0.2-3.0ft)
Lab Sample ID: 620-27214-8
Date Collected: 06/26/25 10:40
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			49799	NRH	EET RI	06/27/25 18:31
Total/NA	Prep	5035			49849	CLR	EET RI	06/30/25 14:57
Total/NA	Analysis	8260C		1	49817	CLR	EET RI	06/30/25 18:49

Client Sample ID: ATC-109 (0.8-3.0ft)
Lab Sample ID: 620-27214-9
Date Collected: 06/26/25 11:00
Matrix: Solid
Date Received: 06/27/25 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	49834	SRC	EET RI	06/30/25 10:01

Client Sample ID: ATC-109 (0.8-3.0ft)
Lab Sample ID: 620-27214-9
Date Collected: 06/26/25 11:00
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			49799	NRH	EET RI	06/27/25 18:31
Total/NA	Prep	5035			49849	CLR	EET RI	06/30/25 14:57
Total/NA	Analysis	8260C		1	49817	CLR	EET RI	06/30/25 19:15

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-110 (0.3-3.0ft)
Lab Sample ID: 620-27214-10
Date Collected: 06/26/25 11:40
Matrix: Solid
Date Received: 06/27/25 17:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	49834	SRC	EET RI	06/30/25 10:01

Client Sample ID: ATC-110 (0.3-3.0ft)
Lab Sample ID: 620-27214-10
Date Collected: 06/26/25 11:40
Matrix: Solid
Date Received: 06/27/25 17:20
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			49799	NRH	EET RI	06/27/25 18:31
Total/NA	Prep	5035			49849	CLR	EET RI	06/30/25 14:57
Total/NA	Analysis	8260C		1	49817	CLR	EET RI	06/30/25 19:41

Laboratory References:

EET RI = Eurofins Rhode Island, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Accreditation/Certification Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Laboratory: Eurofins Rhode Island

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C	5035	Solid	1,1,1,2-Tetrachloroethane
8260C	5035	Solid	1,1,1-Trichloroethane
8260C	5035	Solid	1,1,2,2-Tetrachloroethane
8260C	5035	Solid	1,1,2-Trichloroethane
8260C	5035	Solid	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C	5035	Solid	1,1-Dichloroethane
8260C	5035	Solid	1,1-Dichloroethene
8260C	5035	Solid	1,1-Dichloropropene
8260C	5035	Solid	1,2,3-Trichlorobenzene
8260C	5035	Solid	1,2,3-Trichloropropane
8260C	5035	Solid	1,2,4-Trichlorobenzene
8260C	5035	Solid	1,2,4-Trimethylbenzene
8260C	5035	Solid	1,2-Dibromo-3-Chloropropane
8260C	5035	Solid	1,2-Dibromoethane (EDB)
8260C	5035	Solid	1,2-Dichlorobenzene
8260C	5035	Solid	1,2-Dichloroethane
8260C	5035	Solid	1,2-Dichloropropane
8260C	5035	Solid	1,3,5-Trichlorobenzene
8260C	5035	Solid	1,3,5-Trimethylbenzene
8260C	5035	Solid	1,3-Dichlorobenzene
8260C	5035	Solid	1,3-Dichloropropane
8260C	5035	Solid	1,3-Dichloropropene, Total
8260C	5035	Solid	1,4-Dichlorobenzene
8260C	5035	Solid	1,4-Dioxane
8260C	5035	Solid	2,2-Dichloropropane
8260C	5035	Solid	2-Butanone (MEK)
8260C	5035	Solid	2-Chlorotoluene
8260C	5035	Solid	2-Hexanone (MBK)
8260C	5035	Solid	4-Chlorotoluene
8260C	5035	Solid	4-Isopropyltoluene
8260C	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260C	5035	Solid	Acetone
8260C	5035	Solid	Acrylonitrile
8260C	5035	Solid	Benzene
8260C	5035	Solid	Bromobenzene
8260C	5035	Solid	Bromochloromethane
8260C	5035	Solid	Bromodichloromethane
8260C	5035	Solid	Bromoform
8260C	5035	Solid	Bromomethane
8260C	5035	Solid	Carbon disulfide
8260C	5035	Solid	Carbon tetrachloride
8260C	5035	Solid	Chlorobenzene
8260C	5035	Solid	Chloroethane
8260C	5035	Solid	Chloroform
8260C	5035	Solid	Chloromethane

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Laboratory: Eurofins Rhode Island (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C	5035	Solid	cis-1,2-Dichloroethene
8260C	5035	Solid	cis-1,3-Dichloropropene
8260C	5035	Solid	Dibromochloromethane
8260C	5035	Solid	Dibromomethane
8260C	5035	Solid	Dichlorodifluoromethane (Freon 12)
8260C	5035	Solid	di-Isopropyl ether
8260C	5035	Solid	Ethanol
8260C	5035	Solid	Ethyl ether
8260C	5035	Solid	Ethyl tert-butyl ether
8260C	5035	Solid	Ethylbenzene
8260C	5035	Solid	Hexachlorobutadiene
8260C	5035	Solid	Isopropylbenzene
8260C	5035	Solid	m,p-Xylene
8260C	5035	Solid	Methyl tert-butyl ether
8260C	5035	Solid	Methylene Chloride
8260C	5035	Solid	Naphthalene
8260C	5035	Solid	n-Butylbenzene
8260C	5035	Solid	N-Propylbenzene
8260C	5035	Solid	o-Xylene
8260C	5035	Solid	sec-Butylbenzene
8260C	5035	Solid	Styrene
8260C	5035	Solid	Tert-amyl methyl ether
8260C	5035	Solid	tert-Butanol
8260C	5035	Solid	tert-Butylbenzene
8260C	5035	Solid	Tetrachloroethene
8260C	5035	Solid	Tetrahydrofuran
8260C	5035	Solid	Toluene
8260C	5035	Solid	trans-1,2-Dichloroethene
8260C	5035	Solid	trans-1,3-Dichloropropene
8260C	5035	Solid	trans-1,4-Dichloro-2-butene
8260C	5035	Solid	Trichloroethene
8260C	5035	Solid	Trichlorofluoromethane (Freon 11)
8260C	5035	Solid	Vinyl chloride
8260C	5035	Solid	Xylenes, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	EET RI
Moisture	Percent Moisture	EPA	EET RI
5035	Closed System Purge and Trap	SW846	EET RI
Frozen Preserve	Freezing Samples	None	EET RI

Protocol References:

EPA = US Environmental Protection Agency

MA DEP = Massachusetts Department Of Environmental Protection

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET RI = Eurofins Rhode Island, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Sample Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-27214-1
Project/Site: Tufts Street Improvement - Somerville, M

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-27214-1	ATC-101 (0.6-3.0ft)	Solid	06/26/25 09:00	06/27/25 17:20
620-27214-2	ATC-102 (0.3-4.5ft)	Solid	06/26/25 13:00	06/27/25 17:20
620-27214-3	ATC-103 (0.2-3.0ft)	Solid	06/26/25 09:30	06/27/25 17:20
620-27214-4	ATC-104 (0.3-3.0ft)	Solid	06/26/25 09:50	06/27/25 17:20
620-27214-5	ATC-105 (0.5-4.0ft)	Solid	06/26/25 12:30	06/27/25 17:20
620-27214-6	ATC-106 (0.5-3.0ft)	Solid	06/26/25 11:40	06/27/25 17:20
620-27214-7	ATC-107 (0.2-3.0ft)	Solid	06/26/25 10:20	06/27/25 17:20
620-27214-8	ATC-108 (0.2-3.0ft)	Solid	06/26/25 10:40	06/27/25 17:20
620-27214-9	ATC-109 (0.8-3.0ft)	Solid	06/26/25 11:00	06/27/25 17:20
620-27214-10	ATC-110 (0.3-3.0ft)	Solid	06/26/25 11:40	06/27/25 17:20

27214

Page 1 of 1

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CHAIN OF CUSTODY RECORD

☐ 11 Almgren Drive, Agawam, MA 01001, (413) 789-9018
☑ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

☑ TAT - Date Needed: 4-day

All TATs subject to laboratory approval
Min 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: Atlas Technical Consultants, 10 State Street, Suite 100, Woburn, MA 01801
Telephone #: 781-932-9400
Project Mgr: Aaron Lucci

Invoice To: Atlas - Woburn
P O No: NA Quote #: NA

Project No: 6000007464 Phase 06
Site Name: Tufts Street, Somerville, MA
Location: Tufts Street, Somerville, MA State: MA
Sampler(s): A Lucci

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= ICE 12=

List Preservative Code below: 7/19

QA/QC Reporting Notes:

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= X2= X3=

G= Grab C=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis: VOC 8260							Check if chlorinated
-1	ATC-101 (0 6-3 0ft)	6/26/2025	9 00 AM	G	SO	3			1	x							☐
-2	ATC-102 (0 3-4 5ft)	6/26/2025	1 00 PM	G	SO	3			1	x							☐
-3	ATC-103 (0 2-3 0ft)	6/26/2025	9 30 AM	G	SO	3			1	x							☐
-4	ATC-104 (0 3-3 0ft)	6/26/2025	9 50 AM	G	SO	3			1	x							☐
-5	ATC-105 (0 5-4 0ft)	6/26/2025	12 30 PM	G	SO	3			1	x							☐
-6	ATC-106 (0 5-3 0ft)	6/26/2025	11 40 AM	G	SO	3			1	x							☐
-7	ATC-107 (0 2-3 0ft)	6/26/2025	10 20 AM	G	SO	3			1	x							☐
-8	ATC-108 (0 2-3 0ft)	6/26/2025	10 40 AM	G	SO	3			1	x							☐
-9	ATC-109 (0 8-3 0ft)	6/26/2025	11 00 AM	G	SO	3			1	x							☐
-10	ATC-110 (0 3-3 0ft)	6/26/2025	11 40 AM	G	SO	3			1	x							☐

☐ Level I ☐ Level II ☐ Level III ☐ Level IV
☑ Other: MA MCP S-1
State-specific reporting standards: Need S-1 low level

620-27214 COC

Relinquished by:	Received by:	Date:	Time:
		6/27/25	11:20
		6/27/25	1720

Temp °C: Observed 1.4; Correction Factor 0.2; Corrected 1.6; IR ID # 6

☐ EDD format
☑ E-mail to: michael.gitten@oneatlas.com; aaron.lucci@oneatlas.com

Condition upon receipt: Custody Seals ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☑ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

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7/3/2025

Login Sample Receipt Checklist

Client: Atlas Technical Consultants LLC

Job Number: 620-27214-1

Login Number: 27214
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins Rhode Island

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Stephan Landry
Atlas Technical Consultants LLC
10 State St
Suite 100
Woburn, Massachusetts 01801

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JOB DESCRIPTION

Tufts Street Improvement - Somerville, M

JOB NUMBER

620-17450-1

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

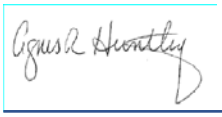
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Revision 1

Authorized for release by
Agnes Huntley, Project Manager
Agnes.Huntley@et.eurofinsus.com
(401)372-3482

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Definitions/Glossary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-17450-1

Project Location: Tufts Street Improvement - Somerville, M | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-17450-1 through 620-17450-18

Matrices: ☑ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☑	7470/7471 Hg CAM III B ☑	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☑	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☑	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

***Data User Note**: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.*

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes ☑ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 04/03/2024

Job ID: 620-17450-1 Eurofins New England

Job Narrative
620-17450-1

REVISION
The report being provided is a revision of the original report sent on 3/28/2024. The report (revision 1) is being revised due to Report revised as client needed full list 8270 with low-level PAHs.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/18/2024 3:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C.

GC/MS VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270MCP: The following analytes have been identified, in the reference method and/or via historical data, to be poor and/or erratic performers: Benzidine and Benzoic acid. These analytes may have a %D >50%.

Method 8270MCP: The laboratory control sample (LCS) for preparation batch 620-32927 and analytical batch 620-32951 recovered outside control limits for the following analytes: 4-Chloroaniline, Aniline, Benzidine, Benzoic acid and Pyridine. The affected target analytes recovered within acceptance limits, >10%, per MCP criteria therefore, demonstrates the analytical system had sufficient sensitivity to detect the compounds had they been present. Since the affected target compounds were not detected in the samples, the data have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 6010MCP: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 620-33090 and analytical batch 620-33178 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010MCP: The sample duplicate (DUP) precision for preparation batch 620-33090 and analytical batch 620-33178 was outside control limits. Sample non-homogeneity is suspected.

Method 6010MCP: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 620-33090 and analytical batch 620-33178 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Job ID: 620-17450-1 (Continued) Eurofins New England

General Chemistry
Method 1010A: The Pensky Martens closed cup apparatus is designed to determine the flash point of a liquid sample. The sample submitted could not be mixed well enough to obtain uniform heating. The temperature being measured was that of the material near the top of the cup. The material at the bottom of the cup could have a higher temperature. The temperature reported may not be accurate.

Method Moisture: The sample duplicate (DUP) precision for analytical batch 620-32837 was outside control limits. Sample non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-3 (0-5) — Lab Sample ID: 620-17450-1

No Detections.

Client Sample ID: ATC-3 (5-10) — Lab Sample ID: 620-17450-2

No Detections.

Client Sample ID: ATC-2 (0-5) — Lab Sample ID: 620-17450-3

No Detections.

Client Sample ID: ATC-2 (5-10) — Lab Sample ID: 620-17450-4

No Detections.

Client Sample ID: ATC-1 (0-5) — Lab Sample ID: 620-17450-5

No Detections.

Client Sample ID: ATC-1 (5-10) — Lab Sample ID: 620-17450-6

No Detections.

Client Sample ID: Comp (0-5) — Lab Sample ID: 620-17450-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	28.7		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Anthracene	33.8		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Benzo[a]anthracene	148		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Benzo[a]pyrene	175		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Benzo[b]fluoranthene	179		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Benzo[g,h,i]perylene	136		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Benzo[k]fluoranthene	165		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Chrysene	156		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Dibenz(a,h)anthracene	41.0		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Fluoranthene	256		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Indeno[1,2,3-cd]pyrene	112		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Phenanthrene	102		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Pyrene	259		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
Bis(2-ethylhexyl) phthalate	50.8		17.8		ug/Kg	1	☼	8270D_LL_PAH	Total/NA
TEPH (C9-C36)	90.2		15.2		mg/Kg	1	☼	8100	Total/NA
Barium	45.9		2.10		mg/Kg	2	☼	6010D	Total/NA
Chromium	13.6	F1	2.10		mg/Kg	2	☼	6010D	Total/NA
Lead	21.0		3.15		mg/Kg	2	☼	6010D	Total/NA
Flashpoint	>184		50.0		Degrees F	1		1010A	Total/NA
Total Organic Carbon	4780	F1	300		mg/Kg	1		9060	Total/NA
pH	8.4				SU	1		9045D	Soluble
Temperature	23.4				Degrees C	1		9045D	Soluble
Specific Conductance	1200		10.0		uS/cm	1		SM 2510B	Soluble

Client Sample ID: Comp (5-10) — Lab Sample ID: 620-17450-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
TEPH (C9-C36)	16.7		14.9		mg/Kg	1	☼	8100	Total/NA
Arsenic	3.60		2.88		mg/Kg	2	☼	6010D	Total/NA
Barium	39.3		1.92		mg/Kg	2	☼	6010D	Total/NA
Chromium	17.4		1.92		mg/Kg	2	☼	6010D	Total/NA
Lead	5.34		2.88		mg/Kg	2	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Comp (5-10) (Continued)
Lab Sample ID: 620-17450-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>170		50.0		Degrees F	1		1010A	Total/NA
Total Organic Carbon	1620		300		mg/Kg	1		9060	Total/NA
pH	7.9				SU	1		9045D	Soluble
Temperature	23.4				Degrees C	1		9045D	Soluble
Specific Conductance	601		10.0		uS/cm	1		SM 2510B	Soluble

Client Sample ID: ATC-8 (0-5)
Lab Sample ID: 620-17450-9

No Detections.

Client Sample ID: ATC-8 (5-10)
Lab Sample ID: 620-17450-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	13.4		4.94		ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: ATC-7 (0-5)
Lab Sample ID: 620-17450-11

No Detections.

Client Sample ID: ATC-7 (5-10)
Lab Sample ID: 620-17450-12

No Detections.

Client Sample ID: ATC-6 (0-5)
Lab Sample ID: 620-17450-13

No Detections.

Client Sample ID: ATC-6 (5-10)
Lab Sample ID: 620-17450-14

No Detections.

Client Sample ID: ATC-4 (0-5)
Lab Sample ID: 620-17450-15

No Detections.

Client Sample ID: ATC-4 (5-10)
Lab Sample ID: 620-17450-16

No Detections.

Client Sample ID: ATC-5 (0-5)
Lab Sample ID: 620-17450-17

No Detections.

Client Sample ID: ATC-5 (5-10)
Lab Sample ID: 620-17450-18

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-3 (0-5)
Lab Sample ID: 620-17450-1
Date Collected: 03/15/24 09:10
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 88.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Acetone	ND		98.4		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Acrylonitrile	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Benzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Bromobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Bromochloromethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Bromodichloromethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Bromoform	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Bromomethane	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
2-Butanone (MEK)	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
n-Butylbenzene	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
sec-Butylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
tert-Butylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Carbon disulfide	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Carbon tetrachloride	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Chlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Chloroethane	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Chloroform	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Chloromethane	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
2-Chlorotoluene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
4-Chlorotoluene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2-Dibromo-3-Chloropropane	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Dibromochloromethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2-Dibromoethane (EDB)	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Dibromomethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2-Dichlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,3-Dichlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,4-Dichlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Dichlorodifluoromethane (Freon 12)	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1-Dichloroethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2-Dichloroethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1-Dichloroethene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
cis-1,2-Dichloroethene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
trans-1,2-Dichloroethene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2-Dichloropropane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,3-Dichloropropane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
2,2-Dichloropropane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1-Dichloropropene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
cis-1,3-Dichloropropene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
trans-1,3-Dichloropropene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Ethylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Hexachlorobutadiene	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
2-Hexanone (MBK)	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Isopropylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
4-Isopropyltoluene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Methyl tert-butyl ether	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
4-Methyl-2-pentanone (MIBK)	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Methylene Chloride	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Naphthalene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-3 (0-5)
Date Collected: 03/15/24 09:10
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-1
Matrix: Solid
Percent Solids: 88.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Styrene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1,1,2-Tetrachloroethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1,2,2-Tetrachloroethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Tetrachloroethene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Toluene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2,3-Trichlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2,4-Trichlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,3,5-Trichlorobenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1,1-Trichloroethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,1,2-Trichloroethane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Trichloroethene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Trichlorofluoromethane (Freon 11)	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2,3-Trichloropropane	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,2,4-Trimethylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,3,5-Trimethylbenzene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Vinyl chloride	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
m,p-Xylene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
o-Xylene	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Tetrahydrofuran	ND		19.7		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Ethyl ether	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Tert-amyl methyl ether	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Ethyl tert-butyl ether	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
di-Isopropyl ether	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
tert-Butanol	ND		197		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,4-Dioxane	ND		197		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
trans-1,4-Dichloro-2-butene	ND		49.2		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Ethanol	ND		1970		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
1,3-Dichloropropene, Total	ND		9.84		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1
Xylenes, Total	ND		29.5		ug/Kg	☼	03/26/24 07:37	03/26/24 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:08*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:08*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:08*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-3 (5-10)
Date Collected: 03/15/24 09:30
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-2
Matrix: Solid
Percent Solids: 87.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Acetone	ND		51.6		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Acrylonitrile	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Benzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Bromobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Bromochloromethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Bromodichloromethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Bromoform	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Bromomethane	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
2-Butanone (MEK)	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
n-Butylbenzene	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
sec-Butylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
tert-Butylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Carbon disulfide	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Carbon tetrachloride	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Chlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Chloroethane	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Chloroform	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Chloromethane	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
2-Chlorotoluene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
4-Chlorotoluene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2-Dibromo-3-Chloropropane	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Dibromochloromethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2-Dibromoethane (EDB)	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Dibromomethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2-Dichlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,3-Dichlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,4-Dichlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Dichlorodifluoromethane (Freon 12)	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1-Dichloroethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2-Dichloroethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1-Dichloroethene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
cis-1,2-Dichloroethene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
trans-1,2-Dichloroethene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2-Dichloropropane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,3-Dichloropropane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
2,2-Dichloropropane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1-Dichloropropene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
cis-1,3-Dichloropropene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
trans-1,3-Dichloropropene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Ethylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Hexachlorobutadiene	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
2-Hexanone (MBK)	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Isopropylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
4-Isopropyltoluene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Methyl tert-butyl ether	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
4-Methyl-2-pentanone (MIBK)	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Methylene Chloride	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Naphthalene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-3 (5-10)
Date Collected: 03/15/24 09:30
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-2
Matrix: Solid
Percent Solids: 87.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Styrene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1,1,2-Tetrachloroethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1,2,2-Tetrachloroethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Tetrachloroethene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Toluene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2,3-Trichlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2,4-Trichlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,3,5-Trichlorobenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1,1-Trichloroethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,1,2-Trichloroethane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Trichloroethene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Trichlorofluoromethane (Freon 11)	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2,3-Trichloropropane	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,2,4-Trimethylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,3,5-Trimethylbenzene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Vinyl chloride	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
m,p-Xylene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
o-Xylene	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Tetrahydrofuran	ND		10.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Ethyl ether	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Tert-amyl methyl ether	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Ethyl tert-butyl ether	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
di-Isopropyl ether	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
tert-Butanol	ND		103		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,4-Dioxane	ND		103		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
trans-1,4-Dichloro-2-butene	ND		25.8		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Ethanol	ND		1030		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
1,3-Dichloropropene, Total	ND		5.16		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1
Xylenes, Total	ND		15.5		ug/Kg	☼	03/26/24 07:37	03/26/24 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:33*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:33*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:33*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-2 (0-5)
Date Collected: 03/15/24 10:15
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-3
Matrix: Solid
Percent Solids: 90.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Acetone	ND		54.6		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Acrylonitrile	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Benzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Bromobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Bromochloromethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Bromodichloromethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Bromoform	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Bromomethane	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
2-Butanone (MEK)	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
n-Butylbenzene	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
sec-Butylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
tert-Butylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Carbon disulfide	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Carbon tetrachloride	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Chlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Chloroethane	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Chloroform	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Chloromethane	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
2-Chlorotoluene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
4-Chlorotoluene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2-Dibromo-3-Chloropropane	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Dibromochloromethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2-Dibromoethane (EDB)	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Dibromomethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2-Dichlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,3-Dichlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,4-Dichlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Dichlorodifluoromethane (Freon 12)	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1-Dichloroethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2-Dichloroethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1-Dichloroethene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
cis-1,2-Dichloroethene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
trans-1,2-Dichloroethene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2-Dichloropropane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,3-Dichloropropane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
2,2-Dichloropropane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1-Dichloropropene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
cis-1,3-Dichloropropene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
trans-1,3-Dichloropropene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Ethylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Hexachlorobutadiene	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
2-Hexanone (MBK)	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Isopropylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
4-Isopropyltoluene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Methyl tert-butyl ether	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
4-Methyl-2-pentanone (MIBK)	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Methylene Chloride	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Naphthalene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-2 (0-5)
Date Collected: 03/15/24 10:15
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-3
Matrix: Solid
Percent Solids: 90.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Styrene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1,1,2-Tetrachloroethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1,2,2-Tetrachloroethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Tetrachloroethene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Toluene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2,3-Trichlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2,4-Trichlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,3,5-Trichlorobenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1,1-Trichloroethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,1,2-Trichloroethane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Trichloroethene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Trichlorofluoromethane (Freon 11)	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2,3-Trichloropropane	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,2,4-Trimethylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,3,5-Trimethylbenzene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Vinyl chloride	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
m,p-Xylene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
o-Xylene	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Tetrahydrofuran	ND		10.9		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Ethyl ether	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Tert-amyl methyl ether	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Ethyl tert-butyl ether	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
di-Isopropyl ether	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
tert-Butanol	ND		109		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,4-Dioxane	ND		109		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
trans-1,4-Dichloro-2-butene	ND		27.3		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Ethanol	ND		1090		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
1,3-Dichloropropene, Total	ND		5.46		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1
Xylenes, Total	ND		16.4		ug/Kg	☼	03/26/24 07:37	03/26/24 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:58*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:58*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 12:58*	*1*

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-2 (5-10)
Lab Sample ID: 620-17450-4
Date Collected: 03/15/24 11:00
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 77.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Acetone	ND		64.1		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Acrylonitrile	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Benzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Bromobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Bromochloromethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Bromodichloromethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Bromoform	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Bromomethane	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
2-Butanone (MEK)	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
n-Butylbenzene	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
sec-Butylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
tert-Butylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Carbon disulfide	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Carbon tetrachloride	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Chlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Chloroethane	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Chloroform	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Chloromethane	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
2-Chlorotoluene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
4-Chlorotoluene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2-Dibromo-3-Chloropropane	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Dibromochloromethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2-Dibromoethane (EDB)	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Dibromomethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2-Dichlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,3-Dichlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,4-Dichlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Dichlorodifluoromethane (Freon 12)	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1-Dichloroethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2-Dichloroethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1-Dichloroethene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
cis-1,2-Dichloroethene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
trans-1,2-Dichloroethene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2-Dichloropropane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,3-Dichloropropane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
2,2-Dichloropropane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1-Dichloropropene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
cis-1,3-Dichloropropene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
trans-1,3-Dichloropropene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Ethylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Hexachlorobutadiene	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
2-Hexanone (MBK)	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Isopropylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
4-Isopropyltoluene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Methyl tert-butyl ether	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
4-Methyl-2-pentanone (MIBK)	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Methylene Chloride	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Naphthalene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-2 (5-10)
Date Collected: 03/15/24 11:00
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-4
Matrix: Solid
Percent Solids: 77.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Styrene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1,1,2-Tetrachloroethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1,2,2-Tetrachloroethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Tetrachloroethene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Toluene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2,3-Trichlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2,4-Trichlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,3,5-Trichlorobenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1,1-Trichloroethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,1,2-Trichloroethane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Trichloroethene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Trichlorofluoromethane (Freon 11)	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2,3-Trichloropropane	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,2,4-Trimethylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,3,5-Trimethylbenzene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Vinyl chloride	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
m,p-Xylene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
o-Xylene	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Tetrahydrofuran	ND		12.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Ethyl ether	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Tert-amyl methyl ether	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Ethyl tert-butyl ether	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
di-Isopropyl ether	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
tert-Butanol	ND		128		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,4-Dioxane	ND		128		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
trans-1,4-Dichloro-2-butene	ND		32.1		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Ethanol	ND		1280		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
1,3-Dichloropropene, Total	ND		6.41		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1
Xylenes, Total	ND		19.2		ug/Kg	☼	03/26/24 07:37	03/26/24 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:23*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:23*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:23*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-1 (0-5)
Date Collected: 03/15/24 11:20
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-5
Matrix: Solid
Percent Solids: 88.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Acetone	ND		46.9		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Acrylonitrile	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Benzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Bromobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Bromochloromethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Bromodichloromethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Bromoform	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Bromomethane	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
2-Butanone (MEK)	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
n-Butylbenzene	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
sec-Butylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
tert-Butylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Carbon disulfide	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Carbon tetrachloride	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Chlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Chloroethane	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Chloroform	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Chloromethane	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
2-Chlorotoluene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
4-Chlorotoluene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2-Dibromo-3-Chloropropane	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Dibromochloromethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2-Dibromoethane (EDB)	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Dibromomethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2-Dichlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,3-Dichlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,4-Dichlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Dichlorodifluoromethane (Freon 12)	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1-Dichloroethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2-Dichloroethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1-Dichloroethene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
cis-1,2-Dichloroethene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
trans-1,2-Dichloroethene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2-Dichloropropane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,3-Dichloropropane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
2,2-Dichloropropane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1-Dichloropropene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
cis-1,3-Dichloropropene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
trans-1,3-Dichloropropene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Ethylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Hexachlorobutadiene	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
2-Hexanone (MBK)	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Isopropylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
4-Isopropyltoluene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Methyl tert-butyl ether	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
4-Methyl-2-pentanone (MIBK)	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Methylene Chloride	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Naphthalene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-1 (0-5)
Date Collected: 03/15/24 11:20
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-5
Matrix: Solid
Percent Solids: 88.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Styrene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1,1,2-Tetrachloroethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1,2,2-Tetrachloroethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Tetrachloroethene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Toluene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2,3-Trichlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2,4-Trichlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,3,5-Trichlorobenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1,1-Trichloroethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,1,2-Trichloroethane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Trichloroethene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Trichlorofluoromethane (Freon 11)	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2,3-Trichloropropane	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,2,4-Trimethylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,3,5-Trimethylbenzene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Vinyl chloride	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
m,p-Xylene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
o-Xylene	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Tetrahydrofuran	ND		9.38		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Ethyl ether	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Tert-amyl methyl ether	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Ethyl tert-butyl ether	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
di-Isopropyl ether	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
tert-Butanol	ND		93.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,4-Dioxane	ND		93.8		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
trans-1,4-Dichloro-2-butene	ND		23.5		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Ethanol	ND		938		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
1,3-Dichloropropene, Total	ND		4.69		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1
Xylenes, Total	ND		14.1		ug/Kg	☼	03/26/24 07:37	03/26/24 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:49*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:49*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 13:49*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-1 (5-10)
Date Collected: 03/15/24 11:30
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-6
Matrix: Solid
Percent Solids: 91.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Acetone	ND		53.2		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Acrylonitrile	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Benzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Bromobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Bromochloromethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Bromodichloromethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Bromoform	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Bromomethane	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
2-Butanone (MEK)	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
n-Butylbenzene	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
sec-Butylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
tert-Butylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Carbon disulfide	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Carbon tetrachloride	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Chlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Chloroethane	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Chloroform	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Chloromethane	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
2-Chlorotoluene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
4-Chlorotoluene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2-Dibromo-3-Chloropropane	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Dibromochloromethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2-Dibromoethane (EDB)	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Dibromomethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2-Dichlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,3-Dichlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,4-Dichlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Dichlorodifluoromethane (Freon 12)	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1-Dichloroethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2-Dichloroethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1-Dichloroethene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
cis-1,2-Dichloroethene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
trans-1,2-Dichloroethene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2-Dichloropropane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,3-Dichloropropane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
2,2-Dichloropropane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1-Dichloropropene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
cis-1,3-Dichloropropene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
trans-1,3-Dichloropropene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Ethylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Hexachlorobutadiene	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
2-Hexanone (MBK)	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Isopropylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
4-Isopropyltoluene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Methyl tert-butyl ether	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
4-Methyl-2-pentanone (MIBK)	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Methylene Chloride	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Naphthalene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-1 (5-10)
Date Collected: 03/15/24 11:30
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-6
Matrix: Solid
Percent Solids: 91.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Styrene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1,1,2-Tetrachloroethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1,2,2-Tetrachloroethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Tetrachloroethene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Toluene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2,3-Trichlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2,4-Trichlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,3,5-Trichlorobenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1,1-Trichloroethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,1,2-Trichloroethane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Trichloroethene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Trichlorofluoromethane (Freon 11)	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2,3-Trichloropropane	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,2,4-Trimethylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,3,5-Trimethylbenzene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Vinyl chloride	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
m,p-Xylene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
o-Xylene	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Tetrahydrofuran	ND		10.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Ethyl ether	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Tert-amyl methyl ether	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Ethyl tert-butyl ether	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
di-Isopropyl ether	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
tert-Butanol	ND		106		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,4-Dioxane	ND		106		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
trans-1,4-Dichloro-2-butene	ND		26.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Ethanol	ND		1060		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
1,3-Dichloropropene, Total	ND		5.32		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1
Xylenes, Total	ND		16.0		ug/Kg	☼	03/26/24 07:37	03/26/24 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:14*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:14*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:14*	*1*

Client Sample ID: Comp (0-5)
Date Collected: 03/15/24 12:00
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-7
Matrix: Solid
Percent Solids: 87.7

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Acenaphthylene	**28.7**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
1-Methylnaphthalene	ND		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Anthracene	**33.8**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzo[a]anthracene	**148**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzo[a]pyrene	**175**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzo[b]fluoranthene	**179**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzo[g,h,i]perylene	**136**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzo[k]fluoranthene	**165**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Chrysene	**156**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Dibenz(a,h)anthracene	**41.0**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Fluoranthene	**256**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Fluorene	ND		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Indeno[1,2,3-cd]pyrene	**112**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2-Methylnaphthalene	ND		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Naphthalene	ND		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Phenanthrene	**102**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Pyrene	**259**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Bis(2-ethylhexyl) phthalate	**50.8**		17.8		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*43*		*30 - 130*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
Terphenyl-d14 (Surr)	*76*		*30 - 130*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
2-Fluorobiphenyl (Surr)	*51*		*30 - 130*	*03/21/24 08:36*	*03/21/24 15:49*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
1,2,4-Trichlorobenzene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
1,2-Dichlorobenzene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
1,3-Dichlorobenzene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
1,4-Dichlorobenzene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,4,5-Trichlorophenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,4,6-Trichlorophenol	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,4-Dichlorophenol	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,4-Dimethylphenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,4-Dinitrophenol	ND		733		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,4-Dinitrotoluene	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2,6-Dinitrotoluene	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2-Chloronaphthalene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2-Chlorophenol	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2-Methylphenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2-Nitroaniline	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
2-Nitrophenol	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
3 & 4 Methylphenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
3,3'-Dichlorobenzidine	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
3-Nitroaniline	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
4,6-Dinitro-2-methylphenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
4-Bromophenyl phenyl ether	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
4-Chloro-3-methylphenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1

Client Sample ID: Comp (0-5)
Date Collected: 03/15/24 12:00
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-7
Matrix: Solid
Percent Solids: 87.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND	*-	185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
4-Chlorophenyl phenyl ether	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
4-Nitroaniline	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
4-Nitrophenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Acetophenone	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Aniline	ND	*-	366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Azobenzene/Diphenyldiazene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzidine	ND	*-	733		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzoic acid	ND	*-	740		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Benzyl alcohol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Bis(2-chloroethoxy)methane	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Bis(2-chloroethyl)ether	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
bis (2-chloroisopropyl) ether	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Bis(2-ethylhexyl) phthalate	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Butyl benzyl phthalate	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Carbazole	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Dibenzofuran	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Diethyl phthalate	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Dimethyl phthalate	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Di-n-butyl phthalate	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Di-n-octyl phthalate	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Hexachlorobenzene	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Hexachlorobutadiene	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Hexachlorocyclopentadiene	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Hexachloroethane	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Isophorone	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Nitrobenzene	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
N-Nitrosodimethylamine	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
N-Nitrosodi-n-propylamine	ND		185		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
N-Nitrosodiphenylamine	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Pentachloronitrobenzene	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Pentachlorophenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Phenol	ND		366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1
Pyridine	ND	*-	366		ug/Kg	☼	03/21/24 08:36	03/21/24 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*50*		*30 - 130*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
2-Fluorophenol (Surr)	*50*		*15 - 110*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
Nitrobenzene-d5 (Surr)	*39*		*30 - 130*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
Phenol-d5 (Surr)	*54*		*15 - 110*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*15 - 110*	*03/21/24 08:36*	*03/21/24 15:49*	*1*
Terphenyl-d14 (Surr)	*76*		*30 - 130*	*03/21/24 08:36*	*03/21/24 15:49*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1221	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1232	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1242	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1248	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1

Client Sample ID: Comp (0-5)
Lab Sample ID: 620-17450-7

Date Collected: 03/15/24 12:00
Matrix: Solid

Date Received: 03/18/24 15:25
Percent Solids: 87.7

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1262	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1260	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1
PCB-1268	ND		21.9		ug/Kg	☼	03/19/24 14:48	03/21/24 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*30 - 150*	*03/19/24 14:48*	*03/21/24 23:56*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*30 - 150*	*03/19/24 14:48*	*03/21/24 23:56*	*1*

Method: SW846 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TEPH (C9-C36)	**90.2**		15.2		mg/Kg	☼	03/19/24 17:07	03/21/24 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*100*		*40 - 140*	*03/19/24 17:07*	*03/21/24 15:35*	*1*
o-Terphenyl (Surr)	*72*		*40 - 140*	*03/19/24 17:07*	*03/21/24 15:35*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	F1	3.15		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2
Barium	**45.9**		2.10		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2
Cadmium	ND		1.05		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2
Chromium	**13.6**	**F1**	2.10		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2
Lead	**21.0**		3.15		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2
Selenium	ND	F1	3.15		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2
Silver	ND	F1	3.15		mg/Kg	☼	03/26/24 08:24	03/27/24 14:54	2

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0150		mg/L		03/26/24 15:40	03/27/24 13:47	1

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0530		mg/Kg	☼	03/19/24 11:28	03/19/24 15:44	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010A)	**>184**		50.0		Degrees F			03/21/24 10:01	1
Cyanide, Reactive (SW846 9012)	ND		57.7		mg/Kg		03/25/24 08:25	03/25/24 17:06	1
Sulfide, Reactive (SW846 9034)	ND		154		mg/Kg		03/25/24 08:25	03/25/24 12:45	1
Total Organic Carbon (SW846 9060)	**4780**	**F1**	300		mg/Kg			03/21/24 13:08	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**8.4**				SU			03/28/24 11:32	1
Temperature (SW846 9045D)	**23.4**				Degrees C			03/28/24 11:32	1
Specific Conductance (SM 2510B)	**1200**		10.0		uS/cm			03/28/24 11:04	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: Comp (5-10)
Date Collected: 03/15/24 12:15
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-8
Matrix: Solid
Percent Solids: 87.4

Method: SW846 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Acenaphthylene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
1-Methylnaphthalene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Anthracene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzo[a]anthracene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzo[a]pyrene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzo[b]fluoranthene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzo[g,h,i]perylene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzo[k]fluoranthene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Chrysene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Dibenz(a,h)anthracene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Fluoranthene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Fluorene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Indeno[1,2,3-cd]pyrene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2-Methylnaphthalene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Naphthalene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Phenanthrene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Pyrene	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Bis(2-ethylhexyl) phthalate	ND		17.9		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*46*		*30 - 130*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
Terphenyl-d14 (Surr)	*65*		*30 - 130*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
2-Fluorobiphenyl (Surr)	*41*		*30 - 130*	*03/21/24 08:36*	*03/21/24 16:14*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
1,2,4-Trichlorobenzene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
1,2-Dichlorobenzene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
1,3-Dichlorobenzene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
1,4-Dichlorobenzene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,4,5-Trichlorophenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,4,6-Trichlorophenol	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,4-Dichlorophenol	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,4-Dimethylphenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,4-Dinitrophenol	ND		737		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,4-Dinitrotoluene	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2,6-Dinitrotoluene	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2-Chloronaphthalene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2-Chlorophenol	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2-Methylphenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2-Nitroaniline	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
2-Nitrophenol	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
3 & 4 Methylphenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
3,3'-Dichlorobenzidine	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
3-Nitroaniline	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
4,6-Dinitro-2-methylphenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
4-Bromophenyl phenyl ether	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
4-Chloro-3-methylphenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: Comp (5-10)
Lab Sample ID: 620-17450-8
Date Collected: 03/15/24 12:15
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 87.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND	*-	186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
4-Chlorophenyl phenyl ether	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
4-Nitroaniline	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
4-Nitrophenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Acetophenone	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Aniline	ND	*-	368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Azobenzene/Diphenyldiazene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzidine	ND	*-	737		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzoic acid	ND	*-	744		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Benzyl alcohol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Bis(2-chloroethoxy)methane	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Bis(2-chloroethyl)ether	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
bis (2-chloroisopropyl) ether	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Bis(2-ethylhexyl) phthalate	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Butyl benzyl phthalate	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Carbazole	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Dibenzofuran	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Diethyl phthalate	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Dimethyl phthalate	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Di-n-butyl phthalate	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Di-n-octyl phthalate	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Hexachlorobenzene	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Hexachlorobutadiene	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Hexachlorocyclopentadiene	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Hexachloroethane	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Isophorone	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Nitrobenzene	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
N-Nitrosodimethylamine	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
N-Nitrosodi-n-propylamine	ND		186		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
N-Nitrosodiphenylamine	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Pentachloronitrobenzene	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Pentachlorophenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Phenol	ND		368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1
Pyridine	ND	*-	368		ug/Kg	☼	03/21/24 08:36	03/21/24 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*41*		*30 - 130*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
2-Fluorophenol (Surr)	*45*		*15 - 110*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
Nitrobenzene-d5 (Surr)	*42*		*30 - 130*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
Phenol-d5 (Surr)	*45*		*15 - 110*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
2,4,6-Tribromophenol (Surr)	*48*		*15 - 110*	*03/21/24 08:36*	*03/21/24 16:14*	*1*
Terphenyl-d14 (Surr)	*65*		*30 - 130*	*03/21/24 08:36*	*03/21/24 16:14*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1221	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1232	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1242	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1248	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1

Client Sample ID: Comp (5-10)
Lab Sample ID: 620-17450-8

Date Collected: 03/15/24 12:15
Matrix: Solid

Date Received: 03/18/24 15:25
Percent Solids: 87.4

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1262	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1260	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1
PCB-1268	ND		22.1		ug/Kg	☼	03/19/24 14:48	03/22/24 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*30 - 150*	*03/19/24 14:48*	*03/22/24 00:14*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*30 - 150*	*03/19/24 14:48*	*03/22/24 00:14*	*1*

Method: SW846 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TEPH (C9-C36)	**16.7**		14.9		mg/Kg	☼	03/19/24 17:07	03/21/24 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*84*		*40 - 140*	*03/19/24 17:07*	*03/21/24 15:57*	*1*
o-Terphenyl (Surr)	*73*		*40 - 140*	*03/19/24 17:07*	*03/21/24 15:57*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.60**		2.88		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2
Barium	**39.3**		1.92		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2
Cadmium	ND		0.961		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2
Chromium	**17.4**		1.92		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2
Lead	**5.34**		2.88		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2
Selenium	ND		2.88		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2
Silver	ND		2.88		mg/Kg	☼	03/26/24 08:24	03/27/24 15:18	2

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0150		mg/L		03/26/24 15:40	03/27/24 13:23	1

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0512		mg/Kg	☼	03/19/24 11:28	03/19/24 15:46	1

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010A)	**>170**		50.0		Degrees F			03/21/24 10:01	1
Cyanide, Reactive (SW846 9012)	ND		59.9		mg/Kg		03/25/24 08:25	03/25/24 17:07	1
Sulfide, Reactive (SW846 9034)	ND		160		mg/Kg		03/25/24 08:25	03/25/24 12:45	1
Total Organic Carbon (SW846 9060)	**1620**		300		mg/Kg			03/21/24 13:29	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**7.9**				SU			03/28/24 11:32	1
Temperature (SW846 9045D)	**23.4**				Degrees C			03/28/24 11:32	1
Specific Conductance (SM 2510B)	**601**		10.0		uS/cm			03/28/24 11:04	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-8 (0-5)
Lab Sample ID: 620-17450-9
Date Collected: 03/14/24 10:00
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 88.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Acetone	ND		61.9		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Acrylonitrile	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Benzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Bromobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Bromochloromethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Bromodichloromethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Bromoform	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Bromomethane	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
2-Butanone (MEK)	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
n-Butylbenzene	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
sec-Butylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
tert-Butylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Carbon disulfide	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Carbon tetrachloride	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Chlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Chloroethane	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Chloroform	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Chloromethane	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
2-Chlorotoluene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
4-Chlorotoluene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2-Dibromo-3-Chloropropane	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Dibromochloromethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2-Dibromoethane (EDB)	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Dibromomethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2-Dichlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,3-Dichlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,4-Dichlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Dichlorodifluoromethane (Freon 12)	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1-Dichloroethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2-Dichloroethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1-Dichloroethene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
cis-1,2-Dichloroethene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
trans-1,2-Dichloroethene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2-Dichloropropane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,3-Dichloropropane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
2,2-Dichloropropane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1-Dichloropropene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
cis-1,3-Dichloropropene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
trans-1,3-Dichloropropene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Ethylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Hexachlorobutadiene	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
2-Hexanone (MBK)	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Isopropylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
4-Isopropyltoluene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Methyl tert-butyl ether	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
4-Methyl-2-pentanone (MIBK)	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Methylene Chloride	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Naphthalene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-8 (0-5)
Date Collected: 03/14/24 10:00
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-9
Matrix: Solid
Percent Solids: 88.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Styrene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1,1,2-Tetrachloroethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1,2,2-Tetrachloroethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Tetrachloroethene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Toluene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2,3-Trichlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2,4-Trichlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,3,5-Trichlorobenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1,1-Trichloroethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,1,2-Trichloroethane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Trichloroethene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Trichlorofluoromethane (Freon 11)	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2,3-Trichloropropane	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,2,4-Trimethylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,3,5-Trimethylbenzene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Vinyl chloride	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
m,p-Xylene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
o-Xylene	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Tetrahydrofuran	ND		12.4		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Ethyl ether	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Tert-amyl methyl ether	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Ethyl tert-butyl ether	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
di-Isopropyl ether	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
tert-Butanol	ND		124		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,4-Dioxane	ND		124		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
trans-1,4-Dichloro-2-butene	ND		31.0		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Ethanol	ND		1240		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
1,3-Dichloropropene, Total	ND		6.19		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1
Xylenes, Total	ND		18.6		ug/Kg	☼	03/26/24 07:37	03/26/24 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:40*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:40*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 14:40*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-8 (5-10)
Date Collected: 03/14/24 11:50
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-10
Matrix: Solid
Percent Solids: 77.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Acetone	ND		49.4		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Acrylonitrile	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Benzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Bromobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Bromochloromethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Bromodichloromethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Bromoform	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Bromomethane	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
2-Butanone (MEK)	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
n-Butylbenzene	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
sec-Butylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
tert-Butylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Carbon disulfide	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Carbon tetrachloride	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Chlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Chloroethane	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Chloroform	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Chloromethane	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
2-Chlorotoluene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
4-Chlorotoluene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2-Dibromo-3-Chloropropane	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Dibromochloromethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2-Dibromoethane (EDB)	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Dibromomethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2-Dichlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,3-Dichlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,4-Dichlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Dichlorodifluoromethane (Freon 12)	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1-Dichloroethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2-Dichloroethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1-Dichloroethene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
cis-1,2-Dichloroethene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
trans-1,2-Dichloroethene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2-Dichloropropane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,3-Dichloropropane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
2,2-Dichloropropane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1-Dichloropropene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
cis-1,3-Dichloropropene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
trans-1,3-Dichloropropene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Ethylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Hexachlorobutadiene	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
2-Hexanone (MBK)	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Isopropylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
4-Isopropyltoluene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Methyl tert-butyl ether	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
4-Methyl-2-pentanone (MIBK)	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Methylene Chloride	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Naphthalene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-8 (5-10)
Lab Sample ID: 620-17450-10
Date Collected: 03/14/24 11:50
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 77.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Styrene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1,1,2-Tetrachloroethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1,2,2-Tetrachloroethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Tetrachloroethene	**13.4**		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Toluene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2,3-Trichlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2,4-Trichlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,3,5-Trichlorobenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1,1-Trichloroethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,1,2-Trichloroethane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Trichloroethene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Trichlorofluoromethane (Freon 11)	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2,3-Trichloropropane	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,2,4-Trimethylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,3,5-Trimethylbenzene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Vinyl chloride	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
m,p-Xylene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
o-Xylene	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Tetrahydrofuran	ND		9.88		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Ethyl ether	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Tert-amyl methyl ether	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Ethyl tert-butyl ether	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
di-Isopropyl ether	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
tert-Butanol	ND		98.8		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,4-Dioxane	ND		98.8		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
trans-1,4-Dichloro-2-butene	ND		24.7		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Ethanol	ND		988		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
1,3-Dichloropropene, Total	ND		4.94		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1
Xylenes, Total	ND		14.8		ug/Kg	☼	03/26/24 07:37	03/26/24 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:06*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:06*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:06*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-7 (0-5)
Date Collected: 03/14/24 11:10
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-11
Matrix: Solid
Percent Solids: 91.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Acetone	ND		46.7		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Acrylonitrile	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Benzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Bromobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Bromochloromethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Bromodichloromethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Bromoform	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Bromomethane	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
2-Butanone (MEK)	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
n-Butylbenzene	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
sec-Butylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
tert-Butylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Carbon disulfide	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Carbon tetrachloride	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Chlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Chloroethane	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Chloroform	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Chloromethane	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
2-Chlorotoluene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
4-Chlorotoluene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2-Dibromo-3-Chloropropane	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Dibromochloromethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2-Dibromoethane (EDB)	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Dibromomethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2-Dichlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,3-Dichlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,4-Dichlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Dichlorodifluoromethane (Freon 12)	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1-Dichloroethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2-Dichloroethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1-Dichloroethene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
cis-1,2-Dichloroethene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
trans-1,2-Dichloroethene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2-Dichloropropane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,3-Dichloropropane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
2,2-Dichloropropane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1-Dichloropropene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
cis-1,3-Dichloropropene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
trans-1,3-Dichloropropene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Ethylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Hexachlorobutadiene	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
2-Hexanone (MBK)	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Isopropylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
4-Isopropyltoluene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Methyl tert-butyl ether	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
4-Methyl-2-pentanone (MIBK)	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Methylene Chloride	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Naphthalene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-7 (0-5)
Date Collected: 03/14/24 11:10
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-11
Matrix: Solid
Percent Solids: 91.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Styrene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1,1,2-Tetrachloroethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1,2,2-Tetrachloroethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Tetrachloroethene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Toluene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2,3-Trichlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2,4-Trichlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,3,5-Trichlorobenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1,1-Trichloroethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,1,2-Trichloroethane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Trichloroethene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Trichlorofluoromethane (Freon 11)	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2,3-Trichloropropane	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,2,4-Trimethylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,3,5-Trimethylbenzene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Vinyl chloride	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
m,p-Xylene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
o-Xylene	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Tetrahydrofuran	ND		9.34		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Ethyl ether	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Tert-amyl methyl ether	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Ethyl tert-butyl ether	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
di-Isopropyl ether	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
tert-Butanol	ND		93.4		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,4-Dioxane	ND		93.4		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
trans-1,4-Dichloro-2-butene	ND		23.4		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Ethanol	ND		934		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
1,3-Dichloropropene, Total	ND		4.67		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1
Xylenes, Total	ND		14.0		ug/Kg	☼	03/26/24 07:37	03/26/24 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:31*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:31*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:31*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-7 (5-10)
Date Collected: 03/14/24 12:10
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-12
Matrix: Solid
Percent Solids: 78.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Acetone	ND		126		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Acrylonitrile	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Benzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Bromobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Bromochloromethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Bromodichloromethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Bromoform	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Bromomethane	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
2-Butanone (MEK)	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
n-Butylbenzene	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
sec-Butylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
tert-Butylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Carbon disulfide	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Carbon tetrachloride	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Chlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Chloroethane	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Chloroform	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Chloromethane	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
2-Chlorotoluene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
4-Chlorotoluene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2-Dibromo-3-Chloropropane	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Dibromochloromethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2-Dibromoethane (EDB)	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Dibromomethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2-Dichlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,3-Dichlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,4-Dichlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Dichlorodifluoromethane (Freon 12)	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1-Dichloroethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2-Dichloroethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1-Dichloroethene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
cis-1,2-Dichloroethene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
trans-1,2-Dichloroethene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2-Dichloropropane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,3-Dichloropropane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
2,2-Dichloropropane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1-Dichloropropene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
cis-1,3-Dichloropropene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
trans-1,3-Dichloropropene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Ethylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Hexachlorobutadiene	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
2-Hexanone (MBK)	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Isopropylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
4-Isopropyltoluene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Methyl tert-butyl ether	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
4-Methyl-2-pentanone (MIBK)	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Methylene Chloride	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Naphthalene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-7 (5-10)
Lab Sample ID: 620-17450-12
Date Collected: 03/14/24 12:10
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 78.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Styrene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1,1,2-Tetrachloroethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1,2,2-Tetrachloroethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Tetrachloroethene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Toluene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2,3-Trichlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2,4-Trichlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,3,5-Trichlorobenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1,1-Trichloroethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,1,2-Trichloroethane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Trichloroethene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Trichlorofluoromethane (Freon 11)	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2,3-Trichloropropane	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,2,4-Trimethylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,3,5-Trimethylbenzene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Vinyl chloride	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
m,p-Xylene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
o-Xylene	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Tetrahydrofuran	ND		25.3		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Ethyl ether	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Tert-amyl methyl ether	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Ethyl tert-butyl ether	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
di-Isopropyl ether	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
tert-Butanol	ND		253		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,4-Dioxane	ND		253		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
trans-1,4-Dichloro-2-butene	ND		63.2		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Ethanol	ND		2530		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
1,3-Dichloropropene, Total	ND		12.6		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1
Xylenes, Total	ND		37.9		ug/Kg	☼	03/26/24 07:37	03/26/24 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:57*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:57*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/26/24 07:37*	*03/26/24 15:57*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-6 (0-5)
Date Collected: 03/14/24 12:30
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-13
Matrix: Solid
Percent Solids: 89.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Acetone	ND		52.1		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Acrylonitrile	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Benzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Bromobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Bromochloromethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Bromodichloromethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Bromoform	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Bromomethane	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
2-Butanone (MEK)	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
n-Butylbenzene	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
sec-Butylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
tert-Butylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Carbon disulfide	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Carbon tetrachloride	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Chlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Chloroethane	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Chloroform	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Chloromethane	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
2-Chlorotoluene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
4-Chlorotoluene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2-Dibromo-3-Chloropropane	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Dibromochloromethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2-Dibromoethane (EDB)	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Dibromomethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2-Dichlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,3-Dichlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,4-Dichlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Dichlorodifluoromethane (Freon 12)	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1-Dichloroethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2-Dichloroethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1-Dichloroethene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
cis-1,2-Dichloroethene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
trans-1,2-Dichloroethene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2-Dichloropropane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,3-Dichloropropane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
2,2-Dichloropropane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1-Dichloropropene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
cis-1,3-Dichloropropene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
trans-1,3-Dichloropropene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Ethylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Hexachlorobutadiene	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
2-Hexanone (MBK)	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Isopropylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
4-Isopropyltoluene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Methyl tert-butyl ether	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
4-Methyl-2-pentanone (MIBK)	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Methylene Chloride	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Naphthalene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-6 (0-5)
Date Collected: 03/14/24 12:30
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-13
Matrix: Solid
Percent Solids: 89.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Styrene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1,1,2-Tetrachloroethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1,2,2-Tetrachloroethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Tetrachloroethene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Toluene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2,3-Trichlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2,4-Trichlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,3,5-Trichlorobenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1,1-Trichloroethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,1,2-Trichloroethane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Trichloroethene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Trichlorofluoromethane (Freon 11)	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2,3-Trichloropropane	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,2,4-Trimethylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,3,5-Trimethylbenzene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Vinyl chloride	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
m,p-Xylene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
o-Xylene	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Tetrahydrofuran	ND		10.4		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Ethyl ether	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Tert-amyl methyl ether	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Ethyl tert-butyl ether	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
di-Isopropyl ether	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
tert-Butanol	ND		104		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,4-Dioxane	ND		104		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
trans-1,4-Dichloro-2-butene	ND		26.1		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Ethanol	ND		1040		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
1,3-Dichloropropene, Total	ND		5.21		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1
Xylenes, Total	ND		15.6		ug/Kg	☼	03/26/24 07:37	03/26/24 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:24*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:24*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:24*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-6 (5-10)
Date Collected: 03/14/24 12:45
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-14
Matrix: Solid
Percent Solids: 92.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Acetone	ND		57.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Acrylonitrile	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Benzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Bromobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Bromochloromethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Bromodichloromethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Bromoform	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Bromomethane	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
2-Butanone (MEK)	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
n-Butylbenzene	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
sec-Butylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
tert-Butylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Carbon disulfide	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Carbon tetrachloride	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Chlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Chloroethane	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Chloroform	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Chloromethane	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
2-Chlorotoluene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
4-Chlorotoluene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2-Dibromo-3-Chloropropane	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Dibromochloromethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2-Dibromoethane (EDB)	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Dibromomethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2-Dichlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,3-Dichlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,4-Dichlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Dichlorodifluoromethane (Freon 12)	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1-Dichloroethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2-Dichloroethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1-Dichloroethene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
cis-1,2-Dichloroethene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
trans-1,2-Dichloroethene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2-Dichloropropane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,3-Dichloropropane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
2,2-Dichloropropane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1-Dichloropropene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
cis-1,3-Dichloropropene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
trans-1,3-Dichloropropene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Ethylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Hexachlorobutadiene	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
2-Hexanone (MBK)	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Isopropylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
4-Isopropyltoluene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Methyl tert-butyl ether	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
4-Methyl-2-pentanone (MIBK)	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Methylene Chloride	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Naphthalene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-6 (5-10)
Lab Sample ID: 620-17450-14
Date Collected: 03/14/24 12:45
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 92.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Styrene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1,1,2-Tetrachloroethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1,2,2-Tetrachloroethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Tetrachloroethene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Toluene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2,3-Trichlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2,4-Trichlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,3,5-Trichlorobenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1,1-Trichloroethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,1,2-Trichloroethane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Trichloroethene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Trichlorofluoromethane (Freon 11)	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2,3-Trichloropropane	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,2,4-Trimethylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,3,5-Trimethylbenzene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Vinyl chloride	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
m,p-Xylene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
o-Xylene	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Tetrahydrofuran	ND		11.5		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Ethyl ether	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Tert-amyl methyl ether	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Ethyl tert-butyl ether	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
di-Isopropyl ether	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
tert-Butanol	ND		115		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,4-Dioxane	ND		115		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
trans-1,4-Dichloro-2-butene	ND		28.8		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Ethanol	ND		1150		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
1,3-Dichloropropene, Total	ND		5.75		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1
Xylenes, Total	ND		17.3		ug/Kg	☼	03/26/24 07:37	03/26/24 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:50*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:50*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 16:50*	*1*

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-4 (0-5)
Lab Sample ID: 620-17450-15
Date Collected: 03/14/24 13:40
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 89.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Acetone	ND		50.4		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Acrylonitrile	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Benzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Bromobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Bromochloromethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Bromodichloromethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Bromoform	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Bromomethane	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
2-Butanone (MEK)	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
n-Butylbenzene	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
sec-Butylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
tert-Butylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Carbon disulfide	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Carbon tetrachloride	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Chlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Chloroethane	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Chloroform	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Chloromethane	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
2-Chlorotoluene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
4-Chlorotoluene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2-Dibromo-3-Chloropropane	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Dibromochloromethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2-Dibromoethane (EDB)	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Dibromomethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2-Dichlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,3-Dichlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,4-Dichlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Dichlorodifluoromethane (Freon 12)	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1-Dichloroethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2-Dichloroethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1-Dichloroethene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
cis-1,2-Dichloroethene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
trans-1,2-Dichloroethene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2-Dichloropropane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,3-Dichloropropane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
2,2-Dichloropropane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1-Dichloropropene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
cis-1,3-Dichloropropene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
trans-1,3-Dichloropropene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Ethylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Hexachlorobutadiene	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
2-Hexanone (MBK)	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Isopropylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
4-Isopropyltoluene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Methyl tert-butyl ether	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
4-Methyl-2-pentanone (MIBK)	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Methylene Chloride	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Naphthalene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-4 (0-5)
Date Collected: 03/14/24 13:40
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-15
Matrix: Solid
Percent Solids: 89.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Styrene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1,1,2-Tetrachloroethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1,2,2-Tetrachloroethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Tetrachloroethene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Toluene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2,3-Trichlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2,4-Trichlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,3,5-Trichlorobenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1,1-Trichloroethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,1,2-Trichloroethane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Trichloroethene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Trichlorofluoromethane (Freon 11)	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2,3-Trichloropropane	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,2,4-Trimethylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,3,5-Trimethylbenzene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Vinyl chloride	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
m,p-Xylene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
o-Xylene	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Tetrahydrofuran	ND		10.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Ethyl ether	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Tert-amyl methyl ether	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Ethyl tert-butyl ether	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
di-Isopropyl ether	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
tert-Butanol	ND		101		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,4-Dioxane	ND		101		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
trans-1,4-Dichloro-2-butene	ND		25.2		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Ethanol	ND		1010		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
1,3-Dichloropropene, Total	ND		5.04		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1
Xylenes, Total	ND		15.1		ug/Kg	☼	03/26/24 07:37	03/26/24 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:15*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:15*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:15*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-4 (5-10)
Date Collected: 03/14/24 13:55
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-16
Matrix: Solid
Percent Solids: 92.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Acetone	ND		52.6		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Acrylonitrile	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Benzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Bromobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Bromochloromethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Bromodichloromethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Bromoform	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Bromomethane	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
2-Butanone (MEK)	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
n-Butylbenzene	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
sec-Butylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
tert-Butylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Carbon disulfide	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Carbon tetrachloride	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Chlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Chloroethane	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Chloroform	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Chloromethane	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
2-Chlorotoluene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
4-Chlorotoluene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2-Dibromo-3-Chloropropane	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Dibromochloromethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2-Dibromoethane (EDB)	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Dibromomethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2-Dichlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,3-Dichlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,4-Dichlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Dichlorodifluoromethane (Freon 12)	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1-Dichloroethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2-Dichloroethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1-Dichloroethene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
cis-1,2-Dichloroethene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
trans-1,2-Dichloroethene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2-Dichloropropane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,3-Dichloropropane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
2,2-Dichloropropane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1-Dichloropropene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
cis-1,3-Dichloropropene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
trans-1,3-Dichloropropene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Ethylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Hexachlorobutadiene	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
2-Hexanone (MBK)	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Isopropylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
4-Isopropyltoluene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Methyl tert-butyl ether	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
4-Methyl-2-pentanone (MIBK)	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Methylene Chloride	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Naphthalene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-4 (5-10)
Lab Sample ID: 620-17450-16
Date Collected: 03/14/24 13:55
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 92.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Styrene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1,1,2-Tetrachloroethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1,2,2-Tetrachloroethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Tetrachloroethene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Toluene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2,3-Trichlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2,4-Trichlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,3,5-Trichlorobenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1,1-Trichloroethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,1,2-Trichloroethane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Trichloroethene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Trichlorofluoromethane (Freon 11)	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2,3-Trichloropropane	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,2,4-Trimethylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,3,5-Trimethylbenzene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Vinyl chloride	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
m,p-Xylene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
o-Xylene	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Tetrahydrofuran	ND		10.5		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Ethyl ether	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Tert-amyl methyl ether	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Ethyl tert-butyl ether	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
di-Isopropyl ether	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
tert-Butanol	ND		105		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,4-Dioxane	ND		105		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
trans-1,4-Dichloro-2-butene	ND		26.3		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Ethanol	ND		1050		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
1,3-Dichloropropene, Total	ND		5.26		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1
Xylenes, Total	ND		15.8		ug/Kg	☼	03/26/24 07:37	03/26/24 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:41*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:41*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 17:41*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-5 (0-5)
Date Collected: 03/14/24 14:25
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-17
Matrix: Solid
Percent Solids: 89.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Acetone	ND		49.2		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Acrylonitrile	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Benzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Bromobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Bromochloromethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Bromodichloromethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Bromoform	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Bromomethane	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
2-Butanone (MEK)	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
n-Butylbenzene	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
sec-Butylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
tert-Butylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Carbon disulfide	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Carbon tetrachloride	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Chlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Chloroethane	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Chloroform	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Chloromethane	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
2-Chlorotoluene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
4-Chlorotoluene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2-Dibromo-3-Chloropropane	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Dibromochloromethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2-Dibromoethane (EDB)	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Dibromomethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2-Dichlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,3-Dichlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,4-Dichlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Dichlorodifluoromethane (Freon 12)	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1-Dichloroethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2-Dichloroethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1-Dichloroethene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
cis-1,2-Dichloroethene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
trans-1,2-Dichloroethene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2-Dichloropropane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,3-Dichloropropane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
2,2-Dichloropropane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1-Dichloropropene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
cis-1,3-Dichloropropene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
trans-1,3-Dichloropropene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Ethylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Hexachlorobutadiene	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
2-Hexanone (MBK)	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Isopropylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
4-Isopropyltoluene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Methyl tert-butyl ether	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
4-Methyl-2-pentanone (MIBK)	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Methylene Chloride	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Naphthalene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-5 (0-5)
Lab Sample ID: 620-17450-17
Date Collected: 03/14/24 14:25
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 89.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Styrene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1,1,2-Tetrachloroethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1,2,2-Tetrachloroethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Tetrachloroethene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Toluene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2,3-Trichlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2,4-Trichlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,3,5-Trichlorobenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1,1-Trichloroethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,1,2-Trichloroethane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Trichloroethene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Trichlorofluoromethane (Freon 11)	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2,3-Trichloropropane	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,2,4-Trimethylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,3,5-Trimethylbenzene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Vinyl chloride	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
m,p-Xylene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
o-Xylene	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Tetrahydrofuran	ND		9.85		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Ethyl ether	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Tert-amyl methyl ether	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Ethyl tert-butyl ether	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
di-Isopropyl ether	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
tert-Butanol	ND		98.5		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,4-Dioxane	ND		98.5		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
trans-1,4-Dichloro-2-butene	ND		24.6		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Ethanol	ND		985		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
1,3-Dichloropropene, Total	ND		4.92		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1
Xylenes, Total	ND		14.8		ug/Kg	☼	03/26/24 07:37	03/26/24 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:07*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:07*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:07*	*1*

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-5 (5-10)
Date Collected: 03/14/24 12:10
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-18
Matrix: Solid
Percent Solids: 92.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Acetone	ND		44.3		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Acrylonitrile	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Benzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Bromobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Bromochloromethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Bromodichloromethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Bromoform	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Bromomethane	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
2-Butanone (MEK)	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
n-Butylbenzene	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
sec-Butylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
tert-Butylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Carbon disulfide	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Carbon tetrachloride	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Chlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Chloroethane	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Chloroform	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Chloromethane	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
2-Chlorotoluene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
4-Chlorotoluene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2-Dibromo-3-Chloropropane	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Dibromochloromethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2-Dibromoethane (EDB)	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Dibromomethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2-Dichlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,3-Dichlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,4-Dichlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Dichlorodifluoromethane (Freon 12)	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1-Dichloroethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2-Dichloroethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1-Dichloroethene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
cis-1,2-Dichloroethene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
trans-1,2-Dichloroethene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2-Dichloropropane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,3-Dichloropropane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
2,2-Dichloropropane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1-Dichloropropene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
cis-1,3-Dichloropropene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
trans-1,3-Dichloropropene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Ethylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Hexachlorobutadiene	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
2-Hexanone (MBK)	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Isopropylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
4-Isopropyltoluene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Methyl tert-butyl ether	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
4-Methyl-2-pentanone (MIBK)	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Methylene Chloride	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Naphthalene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Client Sample ID: ATC-5 (5-10)
Date Collected: 03/14/24 12:10
Date Received: 03/18/24 15:25

Lab Sample ID: 620-17450-18
Matrix: Solid
Percent Solids: 92.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Styrene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1,1,2-Tetrachloroethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1,2,2-Tetrachloroethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Tetrachloroethene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Toluene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2,3-Trichlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2,4-Trichlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,3,5-Trichlorobenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1,1-Trichloroethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,1,2-Trichloroethane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Trichloroethene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Trichlorofluoromethane (Freon 11)	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2,3-Trichloropropane	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,2,4-Trimethylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,3,5-Trimethylbenzene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Vinyl chloride	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
m,p-Xylene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
o-Xylene	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Tetrahydrofuran	ND		8.87		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Ethyl ether	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Tert-amyl methyl ether	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Ethyl tert-butyl ether	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
di-Isopropyl ether	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
tert-Butanol	ND		88.7		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,4-Dioxane	ND		88.7		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
trans-1,4-Dichloro-2-butene	ND		22.2		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Ethanol	ND		887		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
1,3-Dichloropropene, Total	ND		4.43		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1
Xylenes, Total	ND		13.3		ug/Kg	☼	03/26/24 07:37	03/26/24 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:33*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:33*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/26/24 07:37*	*03/26/24 18:33*	*1*

Surrogate Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-17450-1	ATC-3 (0-5)	97	97	99	97
620-17450-2	ATC-3 (5-10)	97	98	100	100
620-17450-3	ATC-2 (0-5)	97	97	100	100
620-17450-4	ATC-2 (5-10)	99	99	113	105
620-17450-5	ATC-1 (0-5)	97	99	101	100
620-17450-6	ATC-1 (5-10)	97	99	101	101
620-17450-9	ATC-8 (0-5)	98	98	101	100
620-17450-10	ATC-8 (5-10)	99	99	103	100
620-17450-11	ATC-7 (0-5)	97	99	100	101
620-17450-12	ATC-7 (5-10)	96	99	103	102
620-17450-13	ATC-6 (0-5)	95	99	99	101
620-17450-14	ATC-6 (5-10)	96	99	101	101
620-17450-15	ATC-4 (0-5)	97	100	108	103
620-17450-16	ATC-4 (5-10)	99	99	102	100
620-17450-17	ATC-5 (0-5)	96	98	101	101
620-17450-18	ATC-5 (5-10)	96	100	102	101
LCS 620-33086/1-A	Lab Control Sample	100	100	99	101
LCSD 620-33086/2-A	Lab Control Sample Dup	100	101	98	101
MB 620-33086/3-A	Method Blank	100	99	102	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
620-17450-7	Comp (0-5)	50	50	39	54	63	76
620-17450-8	Comp (5-10)	41	45	42	45	48	65
LCS 620-32927/2-A	Lab Control Sample	75	75	71	76	77	77
LCSD 620-32927/3-A	Lab Control Sample Dup	73	75	68	75	79	85
MB 620-32927/1-A	Method Blank	56	64	50	60	58	86

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Surrogate Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	TPHL	FBP
Lab Sample ID	Client Sample ID	(30-130)	(30-130)	(30-130)
620-17450-7	Comp (0-5)	43	76	51
620-17450-8	Comp (5-10)	46	65	41
MB 620-32927/1-A	Method Blank	55	86	57

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
FBP = 2-Fluorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(30-150)	(30-150)
620-17450-7	Comp (0-5)	73	88
620-17450-8	Comp (5-10)	79	66

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Method: 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1COD	OTPH
Lab Sample ID	Client Sample ID	(40-140)	(40-140)
620-17450-7	Comp (0-5)	100	72
620-17450-8	Comp (5-10)	84	73
LCS 620-32878/2-A	Lab Control Sample	84	79
LCSD 620-32878/3-A	Lab Control Sample Dup	69	64
MB 620-32878/1-A	Method Blank	58	55

Surrogate Legend

1COD = 1-Chlorooctadecane (Surr)
OTPH = o-Terphenyl (Surr)

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-33086/3-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33086

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Acetone	ND		50.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Acrylonitrile	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Benzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Bromobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Bromochloromethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Bromodichloromethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Bromoform	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Bromomethane	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
2-Butanone (MEK)	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
n-Butylbenzene	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
sec-Butylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
tert-Butylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Carbon disulfide	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Carbon tetrachloride	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Chlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Chloroethane	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Chloroform	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Chloromethane	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
2-Chlorotoluene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
4-Chlorotoluene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Dibromochloromethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2-Dibromoethane (EDB)	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Dibromomethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2-Dichlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,3-Dichlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,4-Dichlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Dichlorodifluoromethane (Freon 12)	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1-Dichloroethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2-Dichloroethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1-Dichloroethene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
cis-1,2-Dichloroethene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
trans-1,2-Dichloroethene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2-Dichloropropane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,3-Dichloropropane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
2,2-Dichloropropane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1-Dichloropropene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
cis-1,3-Dichloropropene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
trans-1,3-Dichloropropene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Ethylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Hexachlorobutadiene	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
2-Hexanone (MBK)	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Isopropylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
4-Isopropyltoluene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Methyl tert-butyl ether	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Methylene Chloride	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-33086/3-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33086

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
N-Propylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Styrene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1,1,2-Tetrachloroethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1,2,2-Tetrachloroethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Tetrachloroethene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Toluene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2,3-Trichlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2,4-Trichlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,3,5-Trichlorobenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1,1-Trichloroethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,1,2-Trichloroethane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Trichloroethene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Trichlorofluoromethane (Freon 11)	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2,3-Trichloropropane	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,2,4-Trimethylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,3,5-Trimethylbenzene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Vinyl chloride	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
m,p-Xylene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
o-Xylene	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Tetrahydrofuran	ND		10.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Ethyl ether	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Tert-amyl methyl ether	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Ethyl tert-butyl ether	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
di-Isopropyl ether	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
tert-Butanol	ND		100		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,4-Dioxane	ND		100		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
trans-1,4-Dichloro-2-butene	ND		25.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Ethanol	ND		1000		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
1,3-Dichloropropene, Total	ND		5.00		ug/Kg		03/26/24 07:37	03/26/24 10:56	1
Xylenes, Total	ND		15.0		ug/Kg		03/26/24 07:37	03/26/24 10:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 10:56*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/26/24 07:37*	*03/26/24 10:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*03/26/24 07:37*	*03/26/24 10:56*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/26/24 07:37*	*03/26/24 10:56*	*1*

Lab Sample ID: LCS 620-33086/1-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33086

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,2-Trichlorotrifluoroethane (Freon 113)			20.0	18.80		ug/Kg		94	70 - 130		
Acetone			20.0	19.91	J	ug/Kg		100	70 - 130		
Acrylonitrile			20.0	18.90		ug/Kg		94	70 - 130		
Benzene			20.0	19.74		ug/Kg		99	70 - 130		
Bromobenzene			20.0	19.44		ug/Kg		97	70 - 130		

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-33086/1-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33086

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	20.0	19.65		ug/Kg		98	70 - 130
Bromodichloromethane	20.0	19.48		ug/Kg		97	70 - 130
Bromoform	20.0	18.46		ug/Kg		92	70 - 130
Bromomethane	20.0	18.25		ug/Kg		91	70 - 130
2-Butanone (MEK)	20.0	20.90		ug/Kg		105	70 - 130
n-Butylbenzene	20.0	18.28		ug/Kg		91	70 - 130
sec-Butylbenzene	20.0	19.96		ug/Kg		100	70 - 130
tert-Butylbenzene	20.0	18.99		ug/Kg		95	70 - 130
Carbon disulfide	20.0	19.07		ug/Kg		95	70 - 130
Carbon tetrachloride	20.0	19.07		ug/Kg		95	70 - 130
Chlorobenzene	20.0	19.44		ug/Kg		97	70 - 130
Chloroethane	20.0	18.66		ug/Kg		93	70 - 130
Chloroform	20.0	19.45		ug/Kg		97	70 - 130
Chloromethane	20.0	19.80		ug/Kg		99	70 - 130
2-Chlorotoluene	20.0	19.62		ug/Kg		98	70 - 130
4-Chlorotoluene	20.0	19.41		ug/Kg		97	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	19.73		ug/Kg		99	70 - 130
Dibromochloromethane	20.0	19.12		ug/Kg		96	70 - 130
1,2-Dibromoethane (EDB)	20.0	19.94		ug/Kg		100	70 - 130
Dibromomethane	20.0	19.81		ug/Kg		99	70 - 130
1,2-Dichlorobenzene	20.0	18.21		ug/Kg		91	70 - 130
1,3-Dichlorobenzene	20.0	19.39		ug/Kg		97	70 - 130
1,4-Dichlorobenzene	20.0	18.93		ug/Kg		95	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	18.58		ug/Kg		93	70 - 130
1,1-Dichloroethane	20.0	19.53		ug/Kg		98	70 - 130
1,2-Dichloroethane	20.0	19.50		ug/Kg		98	70 - 130
1,1-Dichloroethene	20.0	19.27		ug/Kg		96	70 - 130
cis-1,2-Dichloroethene	20.0	19.92		ug/Kg		100	70 - 130
trans-1,2-Dichloroethene	20.0	19.75		ug/Kg		99	70 - 130
1,2-Dichloropropane	20.0	19.63		ug/Kg		98	70 - 130
1,3-Dichloropropane	20.0	20.01		ug/Kg		100	70 - 130
2,2-Dichloropropane	20.0	19.68		ug/Kg		98	70 - 130
1,1-Dichloropropene	20.0	20.07		ug/Kg		100	70 - 130
cis-1,3-Dichloropropene	20.0	19.44		ug/Kg		97	70 - 130
trans-1,3-Dichloropropene	20.0	19.97		ug/Kg		100	70 - 130
Ethylbenzene	20.0	19.70		ug/Kg		98	70 - 130
Hexachlorobutadiene	20.0	18.83		ug/Kg		94	70 - 130
2-Hexanone (MBK)	20.0	18.68		ug/Kg		93	70 - 130
Isopropylbenzene	20.0	19.06		ug/Kg		95	70 - 130
4-Isopropyltoluene	20.0	19.14		ug/Kg		96	70 - 130
Methyl tert-butyl ether	20.0	20.44		ug/Kg		102	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	20.57		ug/Kg		103	70 - 130
Methylene Chloride	20.0	19.10		ug/Kg		95	70 - 130
Naphthalene	20.0	20.69		ug/Kg		103	70 - 130
N-Propylbenzene	20.0	19.71		ug/Kg		99	70 - 130
Styrene	20.0	19.27		ug/Kg		96	70 - 130
1,1,1,2-Tetrachloroethane	20.0	19.24		ug/Kg		96	70 - 130
1,1,2,2-Tetrachloroethane	20.0	19.05		ug/Kg		95	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-33086/1-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33086

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tetrachloroethene			20.0	19.72		ug/Kg		99	70 - 130		
Toluene			20.0	19.65		ug/Kg		98	70 - 130		
1,2,3-Trichlorobenzene			20.0	20.91		ug/Kg		105	70 - 130		
1,2,4-Trichlorobenzene			20.0	19.81		ug/Kg		99	70 - 130		
1,3,5-Trichlorobenzene			20.0	18.74		ug/Kg		94	70 - 130		
1,1,1-Trichloroethane			20.0	19.38		ug/Kg		97	70 - 130		
1,1,2-Trichloroethane			20.0	19.62		ug/Kg		98	70 - 130		
Trichloroethene			20.0	19.07		ug/Kg		95	70 - 130		
Trichlorofluoromethane (Freon 11)			20.0	19.01		ug/Kg		95	70 - 130		
1,2,3-Trichloropropane			20.0	19.44		ug/Kg		97	70 - 130		
1,2,4-Trimethylbenzene			20.0	18.86		ug/Kg		94	70 - 130		
1,3,5-Trimethylbenzene			20.0	19.64		ug/Kg		98	70 - 130		
Vinyl chloride			20.0	18.81		ug/Kg		94	70 - 130		
m,p-Xylene			20.0	19.63		ug/Kg		98	70 - 130		
o-Xylene			20.0	19.32		ug/Kg		97	70 - 130		
Tetrahydrofuran			20.0	20.17		ug/Kg		101	70 - 130		
Ethyl ether			20.0	19.60		ug/Kg		98	70 - 130		
Tert-amyl methyl ether			20.0	19.75		ug/Kg		99	70 - 130		
Ethyl tert-butyl ether			20.0	20.42		ug/Kg		102	70 - 130		
di-Isopropyl ether			20.0	20.16		ug/Kg		101	70 - 130		
tert-Butanol			200	215.9		ug/Kg		108	70 - 130		
1,4-Dioxane			200	209.6		ug/Kg		105	70 - 130		
trans-1,4-Dichloro-2-butene			20.0	18.36	J	ug/Kg		92	70 - 130		
Ethanol			400	389.9	J	ug/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 620-33086/2-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33086

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			20.0	19.20		ug/Kg		96	70 - 130	2	30
Acetone			20.0	17.70	J	ug/Kg		88	70 - 130	12	30
Acrylonitrile			20.0	18.69		ug/Kg		93	70 - 130	1	30
Benzene			20.0	19.95		ug/Kg		100	70 - 130	1	30
Bromobenzene			20.0	19.59		ug/Kg		98	70 - 130	1	30
Bromochloromethane			20.0	20.27		ug/Kg		101	70 - 130	3	30
Bromodichloromethane			20.0	19.66		ug/Kg		98	70 - 130	1	30
Bromoform			20.0	18.18		ug/Kg		91	70 - 130	2	30
Bromomethane			20.0	17.81		ug/Kg		89	70 - 130	2	30
2-Butanone (MEK)			20.0	18.73		ug/Kg		94	70 - 130	11	30
n-Butylbenzene			20.0	18.30		ug/Kg		92	70 - 130	0	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-33086/2-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 33087
Prep Batch: 33086

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene	20.0	19.93		ug/Kg		100	70 - 130	0	30
tert-Butylbenzene	20.0	19.53		ug/Kg		98	70 - 130	3	30
Carbon disulfide	20.0	19.12		ug/Kg		96	70 - 130	0	30
Carbon tetrachloride	20.0	19.60		ug/Kg		98	70 - 130	3	30
Chlorobenzene	20.0	19.75		ug/Kg		99	70 - 130	2	30
Chloroethane	20.0	19.15		ug/Kg		96	70 - 130	3	30
Chloroform	20.0	19.76		ug/Kg		99	70 - 130	2	30
Chloromethane	20.0	19.69		ug/Kg		98	70 - 130	1	30
2-Chlorotoluene	20.0	19.79		ug/Kg		99	70 - 130	1	30
4-Chlorotoluene	20.0	19.50		ug/Kg		98	70 - 130	0	30
1,2-Dibromo-3-Chloropropane	20.0	19.65		ug/Kg		98	70 - 130	0	30
Dibromochloromethane	20.0	19.25		ug/Kg		96	70 - 130	1	30
1,2-Dibromoethane (EDB)	20.0	19.72		ug/Kg		99	70 - 130	1	30
Dibromomethane	20.0	19.48		ug/Kg		97	70 - 130	2	30
1,2-Dichlorobenzene	20.0	18.63		ug/Kg		93	70 - 130	2	30
1,3-Dichlorobenzene	20.0	19.50		ug/Kg		97	70 - 130	1	30
1,4-Dichlorobenzene	20.0	19.10		ug/Kg		95	70 - 130	1	30
Dichlorodifluoromethane (Freon 12)	20.0	18.81		ug/Kg		94	70 - 130	1	30
1,1-Dichloroethane	20.0	19.83		ug/Kg		99	70 - 130	2	30
1,2-Dichloroethane	20.0	19.57		ug/Kg		98	70 - 130	0	30
1,1-Dichloroethene	20.0	19.71		ug/Kg		99	70 - 130	2	30
cis-1,2-Dichloroethene	20.0	20.11		ug/Kg		101	70 - 130	1	30
trans-1,2-Dichloroethene	20.0	19.86		ug/Kg		99	70 - 130	1	30
1,2-Dichloropropane	20.0	19.78		ug/Kg		99	70 - 130	1	30
1,3-Dichloropropane	20.0	19.81		ug/Kg		99	70 - 130	1	30
2,2-Dichloropropane	20.0	19.78		ug/Kg		99	70 - 130	0	30
1,1-Dichloropropene	20.0	20.47		ug/Kg		102	70 - 130	2	30
cis-1,3-Dichloropropene	20.0	19.56		ug/Kg		98	70 - 130	1	30
trans-1,3-Dichloropropene	20.0	19.71		ug/Kg		99	70 - 130	1	30
Ethylbenzene	20.0	19.96		ug/Kg		100	70 - 130	1	30
Hexachlorobutadiene	20.0	19.93		ug/Kg		100	70 - 130	6	30
2-Hexanone (MBK)	20.0	17.22		ug/Kg		86	70 - 130	8	30
Isopropylbenzene	20.0	19.32		ug/Kg		97	70 - 130	1	30
4-Isopropyltoluene	20.0	19.59		ug/Kg		98	70 - 130	2	30
Methyl tert-butyl ether	20.0	20.32		ug/Kg		102	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)	20.0	19.12		ug/Kg		96	70 - 130	7	30
Methylene Chloride	20.0	19.41		ug/Kg		97	70 - 130	2	30
Naphthalene	20.0	20.94		ug/Kg		105	70 - 130	1	30
N-Propylbenzene	20.0	19.79		ug/Kg		99	70 - 130	0	30
Styrene	20.0	19.22		ug/Kg		96	70 - 130	0	30
1,1,1,2-Tetrachloroethane	20.0	19.46		ug/Kg		97	70 - 130	1	30
1,1,2,2-Tetrachloroethane	20.0	18.74		ug/Kg		94	70 - 130	2	30
Tetrachloroethene	20.0	20.01		ug/Kg		100	70 - 130	1	30
Toluene	20.0	20.00		ug/Kg		100	70 - 130	2	30
1,2,3-Trichlorobenzene	20.0	21.12		ug/Kg		106	70 - 130	1	30
1,2,4-Trichlorobenzene	20.0	20.08		ug/Kg		100	70 - 130	1	30
1,3,5-Trichlorobenzene	20.0	19.10		ug/Kg		96	70 - 130	2	30
1,1,1-Trichloroethane	20.0	19.64		ug/Kg		98	70 - 130	1	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-33086/2-A
Matrix: Solid
Analysis Batch: 33087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33086

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane			20.0	19.85		ug/Kg		99	70 - 130	1	30
Trichloroethene			20.0	19.38		ug/Kg		97	70 - 130	2	30
Trichlorofluoromethane (Freon 11)			20.0	19.06		ug/Kg		95	70 - 130	0	30
1,2,3-Trichloropropane			20.0	19.00		ug/Kg		95	70 - 130	2	30
1,2,4-Trimethylbenzene			20.0	19.02		ug/Kg		95	70 - 130	1	30
1,3,5-Trimethylbenzene			20.0	19.95		ug/Kg		100	70 - 130	2	30
Vinyl chloride			20.0	18.85		ug/Kg		94	70 - 130	0	30
m,p-Xylene			20.0	19.88		ug/Kg		99	70 - 130	1	30
o-Xylene			20.0	19.51		ug/Kg		98	70 - 130	1	30
Tetrahydrofuran			20.0	19.04		ug/Kg		95	70 - 130	6	30
Ethyl ether			20.0	19.98		ug/Kg		100	70 - 130	2	30
Tert-amyl methyl ether			20.0	19.77		ug/Kg		99	70 - 130	0	30
Ethyl tert-butyl ether			20.0	20.59		ug/Kg		103	70 - 130	1	30
di-Isopropyl ether			20.0	20.36		ug/Kg		102	70 - 130	1	30
tert-Butanol			200	202.9		ug/Kg		101	70 - 130	6	30
1,4-Dioxane			200	191.8		ug/Kg		96	70 - 130	9	30
trans-1,4-Dichloro-2-butene			20.0	17.90	J	ug/Kg		90	70 - 130	2	30
Ethanol			400	313.8	J	ug/Kg		78	70 - 130	22	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-32927/1-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32927

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
1,2,4-Trichlorobenzene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
1,2-Dichlorobenzene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
1,3-Dichlorobenzene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
1,4-Dichlorobenzene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,4,5-Trichlorophenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,4,6-Trichlorophenol	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,4-Dichlorophenol	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,4-Dimethylphenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,4-Dinitrophenol	ND		660		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,4-Dinitrotoluene	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2,6-Dinitrotoluene	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2-Chloronaphthalene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2-Chlorophenol	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2-Methylphenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2-Nitroaniline	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-32927/1-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32927

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
3 & 4 Methylphenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
3,3'-Dichlorobenzidine	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
3-Nitroaniline	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4,6-Dinitro-2-methylphenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4-Bromophenyl phenyl ether	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4-Chloro-3-methylphenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4-Chloroaniline	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4-Chlorophenyl phenyl ether	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4-Nitroaniline	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
4-Nitrophenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Acetophenone	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Aniline	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Azobenzene/Diphenyldiazene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzidine	ND		660		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzoic acid	ND		667		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzyl alcohol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Bis(2-chloroethoxy)methane	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Bis(2-chloroethyl)ether	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
bis (2-chloroisopropyl) ether	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Bis(2-ethylhexyl) phthalate	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Butyl benzyl phthalate	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Carbazole	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Dibenzofuran	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Diethyl phthalate	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Dimethyl phthalate	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Di-n-butyl phthalate	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Di-n-octyl phthalate	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Hexachlorobenzene	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Hexachlorobutadiene	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Hexachlorocyclopentadiene	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Hexachloroethane	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Isophorone	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Nitrobenzene	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
N-Nitrosodimethylamine	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
N-Nitrosodi-n-propylamine	ND		167		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
N-Nitrosodiphenylamine	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Pentachloronitrobenzene	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Pentachlorophenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Phenol	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Pyridine	ND		330		ug/Kg		03/21/24 08:36	03/21/24 13:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*56*		*30 - 130*	*03/21/24 08:36*	*03/21/24 13:46*	*1*
2-Fluorophenol (Surr)	*64*		*15 - 110*	*03/21/24 08:36*	*03/21/24 13:46*	*1*
Nitrobenzene-d5 (Surr)	*50*		*30 - 130*	*03/21/24 08:36*	*03/21/24 13:46*	*1*
Phenol-d5 (Surr)	*60*		*15 - 110*	*03/21/24 08:36*	*03/21/24 13:46*	*1*
2,4,6-Tribromophenol (Surr)	*58*		*15 - 110*	*03/21/24 08:36*	*03/21/24 13:46*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-32927/1-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32927

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	86		30 - 130	03/21/24 08:36	03/21/24 13:46	1

Lab Sample ID: LCS 620-32927/2-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32927

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	1670	1173		ug/Kg		70	40 - 140
1,2,4-Trichlorobenzene	1670	1139		ug/Kg		68	40 - 140
1,2-Dichlorobenzene	1670	1122		ug/Kg		67	40 - 140
1,3-Dichlorobenzene	1670	1171		ug/Kg		70	40 - 140
1,4-Dichlorobenzene	1670	1147		ug/Kg		69	40 - 140
2,4,5-Trichlorophenol	1670	1191		ug/Kg		71	30 - 130
2,4,6-Trichlorophenol	1670	1318		ug/Kg		79	30 - 130
2,4-Dichlorophenol	1670	1163		ug/Kg		70	30 - 130
2,4-Dimethylphenol	1670	1113		ug/Kg		67	30 - 130
2,4-Dinitrophenol	1670	968.3		ug/Kg		58	30 - 130
2,4-Dinitrotoluene	1670	1430		ug/Kg		86	40 - 140
2,6-Dinitrotoluene	1670	1332		ug/Kg		80	40 - 140
2-Chloronaphthalene	1670	1284		ug/Kg		77	40 - 140
2-Chlorophenol	1670	1209		ug/Kg		73	30 - 130
2-Methylphenol	1670	1235		ug/Kg		74	30 - 130
2-Nitroaniline	1670	987.5		ug/Kg		59	40 - 140
2-Nitrophenol	1670	1130		ug/Kg		68	30 - 130
3 & 4 Methylphenol	1670	1243		ug/Kg		75	30 - 130
3,3'-Dichlorobenzidine	1670	1636		ug/Kg		98	40 - 140
3-Nitroaniline	1670	733.0		ug/Kg		44	40 - 140
4,6-Dinitro-2-methylphenol	1670	1157		ug/Kg		69	30 - 130
4-Bromophenyl phenyl ether	1670	1330		ug/Kg		80	40 - 140
4-Chloro-3-methylphenol	1670	1303		ug/Kg		78	30 - 130
4-Chloroaniline	1670	520.8	*-	ug/Kg		31	40 - 140
4-Chlorophenyl phenyl ether	1670	1380		ug/Kg		83	40 - 140
4-Nitroaniline	1670	929.3		ug/Kg		56	40 - 140
4-Nitrophenol	1670	1315		ug/Kg		79	30 - 130
Acetophenone	1670	1179		ug/Kg		71	40 - 140
Aniline	1670	606.8	*-	ug/Kg		36	40 - 140
Azobenzene/Diphenyldiazene	1670	885.0		ug/Kg		53	40 - 140
Benzidine	1670	399.0	J *-	ug/Kg		24	40 - 140
Benzoic acid	1670	443.3	*-	ug/Kg		27	30 - 130
Benzyl alcohol	1670	1074		ug/Kg		64	40 - 140
Bis(2-chloroethoxy)methane	1670	1054		ug/Kg		63	40 - 140
Bis(2-chloroethyl)ether	1670	1117		ug/Kg		67	40 - 140
bis (2-chloroisopropyl) ether	1670	998.5		ug/Kg		60	40 - 140
Bis(2-ethylhexyl) phthalate	1670	1399		ug/Kg		84	40 - 140
Butyl benzyl phthalate	1670	1403		ug/Kg		84	40 - 140
Carbazole	1670	951.1		ug/Kg		57	40 - 140
Dibenzofuran	1670	1326		ug/Kg		80	40 - 140
Diethyl phthalate	1670	1365		ug/Kg		82	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-32927/2-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32927

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethyl phthalate	1670	1367		ug/Kg		82	40 - 140
Di-n-butyl phthalate	1670	1373		ug/Kg		82	40 - 140
Di-n-octyl phthalate	1670	1433		ug/Kg		86	40 - 140
Hexachlorobenzene	1670	1358		ug/Kg		81	40 - 140
Hexachlorobutadiene	1670	1008		ug/Kg		61	40 - 140
Hexachlorocyclopentadiene	1670	974.9		ug/Kg		58	40 - 140
Hexachloroethane	1670	1115		ug/Kg		67	40 - 140
Isophorone	1670	1043		ug/Kg		63	40 - 140
Nitrobenzene	1670	1166		ug/Kg		70	40 - 140
N-Nitrosodimethylamine	1670	824.2		ug/Kg		49	40 - 140
N-Nitrosodi-n-propylamine	1670	1231		ug/Kg		74	40 - 140
N-Nitrosodiphenylamine	1670	1452		ug/Kg		87	40 - 140
Pentachloronitrobenzene	1670	1479		ug/Kg		89	40 - 140
Pentachlorophenol	1670	1067		ug/Kg		64	30 - 130
Phenol	1670	1197		ug/Kg		72	40 - 140
Pyridine	1670	582.1	*-	ug/Kg		35	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*75*		*30 - 130*
2-Fluorophenol (Surr)	*75*		*15 - 110*
Nitrobenzene-d5 (Surr)	*71*		*30 - 130*
Phenol-d5 (Surr)	*76*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*77*		*15 - 110*
Terphenyl-d14 (Surr)	*77*		*30 - 130*

Lab Sample ID: LCSD 620-32927/3-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32927

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	1670	1135		ug/Kg		68	40 - 140	3	30
1,2,4-Trichlorobenzene	1670	1061		ug/Kg		64	40 - 140	7	30
1,2-Dichlorobenzene	1670	1074		ug/Kg		64	40 - 140	4	30
1,3-Dichlorobenzene	1670	1105		ug/Kg		66	40 - 140	6	30
1,4-Dichlorobenzene	1670	1110		ug/Kg		67	40 - 140	3	30
2,4,5-Trichlorophenol	1670	1186		ug/Kg		71	30 - 130	0	30
2,4,6-Trichlorophenol	1670	1295		ug/Kg		78	30 - 130	2	30
2,4-Dichlorophenol	1670	1129		ug/Kg		68	30 - 130	3	30
2,4-Dimethylphenol	1670	1091		ug/Kg		65	30 - 130	2	30
2,4-Dinitrophenol	1670	994.5		ug/Kg		60	30 - 130	3	30
2,4-Dinitrotoluene	1670	1436		ug/Kg		86	40 - 140	0	30
2,6-Dinitrotoluene	1670	1348		ug/Kg		81	40 - 140	1	30
2-Chloronaphthalene	1670	1240		ug/Kg		74	40 - 140	3	30
2-Chlorophenol	1670	1173		ug/Kg		70	30 - 130	3	30
2-Methylphenol	1670	1206		ug/Kg		72	30 - 130	2	30
2-Nitroaniline	1670	994.4		ug/Kg		60	40 - 140	1	30
2-Nitrophenol	1670	1066		ug/Kg		64	30 - 130	6	30
3 & 4 Methylphenol	1670	1217		ug/Kg		73	30 - 130	2	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-32927/3-A
Matrix: Solid
Analysis Batch: 32951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32927

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3,3'-Dichlorobenzidine			1670	1610		ug/Kg		97	40 - 140	2	30
3-Nitroaniline			1670	716.5		ug/Kg		43	40 - 140	2	30
4,6-Dinitro-2-methylphenol			1670	1193		ug/Kg		72	30 - 130	3	30
4-Bromophenyl phenyl ether			1670	1332		ug/Kg		80	40 - 140	0	30
4-Chloro-3-methylphenol			1670	1264		ug/Kg		76	30 - 130	3	30
4-Chloroaniline			1670	433.8	*-	ug/Kg		26	40 - 140	18	30
4-Chlorophenyl phenyl ether			1670	1388		ug/Kg		83	40 - 140	1	30
4-Nitroaniline			1670	969.4		ug/Kg		58	40 - 140	4	30
4-Nitrophenol			1670	1261		ug/Kg		76	30 - 130	4	30
Acetophenone			1670	1136		ug/Kg		68	40 - 140	4	30
Aniline			1670	545.3	*-	ug/Kg		33	40 - 140	11	30
Azobenzene/Diphenyldiazene			1670	871.0		ug/Kg		52	40 - 140	2	30
Benzidine			1670	391.4	J *-	ug/Kg		23	40 - 140	2	30
Benzoic acid			1670	392.4	*-	ug/Kg		24	30 - 130	12	30
Benzyl alcohol			1670	1052		ug/Kg		63	40 - 140	2	30
Bis(2-chloroethoxy)methane			1670	1011		ug/Kg		61	40 - 140	4	30
Bis(2-chloroethyl)ether			1670	1081		ug/Kg		65	40 - 140	3	30
bis (2-chloroisopropyl) ether			1670	972.2		ug/Kg		58	40 - 140	3	30
Bis(2-ethylhexyl) phthalate			1670	1465		ug/Kg		88	40 - 140	5	30
Butyl benzyl phthalate			1670	1454		ug/Kg		87	40 - 140	4	30
Carbazole			1670	987.3		ug/Kg		59	40 - 140	4	30
Dibenzofuran			1670	1342		ug/Kg		81	40 - 140	1	30
Diethyl phthalate			1670	1398		ug/Kg		84	40 - 140	2	30
Dimethyl phthalate			1670	1360		ug/Kg		82	40 - 140	0	30
Di-n-butyl phthalate			1670	1404		ug/Kg		84	40 - 140	2	30
Di-n-octyl phthalate			1670	1511		ug/Kg		91	40 - 140	5	30
Hexachlorobenzene			1670	1372		ug/Kg		82	40 - 140	1	30
Hexachlorobutadiene			1670	945.1		ug/Kg		57	40 - 140	6	30
Hexachlorocyclopentadiene			1670	956.8		ug/Kg		57	40 - 140	2	30
Hexachloroethane			1670	1065		ug/Kg		64	40 - 140	5	30
Isophorone			1670	990.8		ug/Kg		59	40 - 140	5	30
Nitrobenzene			1670	1108		ug/Kg		66	40 - 140	5	30
N-Nitrosodimethylamine			1670	813.7		ug/Kg		49	40 - 140	1	30
N-Nitrosodi-n-propylamine			1670	1218		ug/Kg		73	40 - 140	1	30
N-Nitrosodiphenylamine			1670	1454		ug/Kg		87	40 - 140	0	30
Pentachloronitrobenzene			1670	1494		ug/Kg		90	40 - 140	1	30
Pentachlorophenol			1670	1098		ug/Kg		66	30 - 130	3	30
Phenol			1670	1189		ug/Kg		71	40 - 140	1	30
Pyridine			1670	550.5	*-	ug/Kg		33	40 - 140	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*73*		*30 - 130*
2-Fluorophenol (Surr)	*75*		*15 - 110*
Nitrobenzene-d5 (Surr)	*68*		*30 - 130*
Phenol-d5 (Surr)	*75*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*
Terphenyl-d14 (Surr)	*85*		*30 - 130*

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Lab Sample ID: MB 620-32927/1-A
Matrix: Solid
Analysis Batch: 32952

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32927

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Acenaphthylene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
1-Methylnaphthalene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Anthracene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzo[a]anthracene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzo[a]pyrene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzo[b]fluoranthene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzo[g,h,i]perylene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Benzo[k]fluoranthene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Chrysene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Dibenz(a,h)anthracene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Fluoranthene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Fluorene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Indeno[1,2,3-cd]pyrene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
2-Methylnaphthalene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Naphthalene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Phenanthrene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Pyrene	ND		16.0		ug/Kg		03/21/24 08:36	03/21/24 13:46	1
Bis(2-ethylhexyl) phthalate	ND		33.3		ug/Kg		03/21/24 08:36	03/21/24 13:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*55*		*30 - 130*	*03/21/24 08:36*	*03/21/24 13:46*	*1*
Terphenyl-d14 (Surr)	*86*		*30 - 130*	*03/21/24 08:36*	*03/21/24 13:46*	*1*
2-Fluorobiphenyl (Surr)	*57*		*30 - 130*	*03/21/24 08:36*	*03/21/24 13:46*	*1*

Method: 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Lab Sample ID: MB 620-32878/1-A
Matrix: Solid
Analysis Batch: 32965

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32878

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TEPH (C9-C36)	ND		13.3		mg/Kg		03/19/24 17:07	03/21/24 13:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*58*		*40 - 140*	*03/19/24 17:07*	*03/21/24 13:42*	*1*
o-Terphenyl (Surr)	*55*		*40 - 140*	*03/19/24 17:07*	*03/21/24 13:42*	*1*

Lab Sample ID: LCS 620-32878/2-A
Matrix: Solid
Analysis Batch: 32965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32878

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TEPH (C9-C36)			360	274.4		mg/Kg		76	30 - 100		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctadecane (Surr)	*84*		*40 - 140*
o-Terphenyl (Surr)	*79*		*40 - 140*

Method: 8100 - Polynuclear Aromatic Hydrocarbons (PAHs) (GC)

Lab Sample ID: LCSD 620-32878/3-A
Matrix: Solid
Analysis Batch: 32965

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32878

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TEPH (C9-C36)			360	215.3		mg/Kg		60	30 - 100	24	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctadecane (Surr)	*69*		*40 - 140*
o-Terphenyl (Surr)	*64*		*40 - 140*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 620-33090/1-A
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33090

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.50		mg/Kg		03/26/24 08:24	03/27/24 14:42	1
Barium	ND		1.00		mg/Kg		03/26/24 08:24	03/27/24 14:42	1
Cadmium	ND		0.500		mg/Kg		03/26/24 08:24	03/27/24 14:42	1
Chromium	ND		1.00		mg/Kg		03/26/24 08:24	03/27/24 14:42	1
Lead	ND		1.50		mg/Kg		03/26/24 08:24	03/27/24 14:42	1
Selenium	ND		1.50		mg/Kg		03/26/24 08:24	03/27/24 14:42	1
Silver	ND		1.50		mg/Kg		03/26/24 08:24	03/27/24 14:42	1

Lab Sample ID: LCSSRM 620-33090/2-A
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33090

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			223	189.0		mg/Kg		84.8	70.4 - 102.2		
Barium			445	462.6		mg/Kg		104.0	78.0 - 110.8		
Cadmium			226	235.6		mg/Kg		104.3	73.9 - 104.9		
Chromium			230	206.4		mg/Kg		89.7	73.5 - 107.0		
Lead			275	266.9		mg/Kg		97.1	74.2 - 108.0		
Selenium			137	127.0		mg/Kg		92.7	70.9 - 108.8		
Silver			75.3	58.60		mg/Kg		77.8	72.0 - 110.1		

Lab Sample ID: 620-17450-7 MS
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (0-5)
Prep Type: Total/NA
Prep Batch: 33090

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic	ND	F1	100	75.72	F1	mg/Kg	☼	73	75 - 125		
Cadmium	ND		100	79.83		mg/Kg	☼	80	75 - 125		
Chromium	13.6	F1	100	86.58	F1	mg/Kg	☼	73	75 - 125		
Lead	21.0		100	98.74		mg/Kg	☼	78	75 - 125		
Selenium	ND	F1	100	72.55	F1	mg/Kg	☼	73	75 - 125		

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-17450-7 MS
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (0-5)
Prep Type: Total/NA
Prep Batch: 33090

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	ND	F1	100	46.65	F1	mg/Kg	☼	47	75 - 125

Lab Sample ID: 620-17450-7 MSD
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (0-5)
Prep Type: Total/NA
Prep Batch: 33090

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND	F1	92.8	85.32		mg/Kg	☼	89	75 - 125	12	20
Barium	45.9		92.8	147.8		mg/Kg	☼	110	75 - 125	6	20
Cadmium	ND		92.8	88.13		mg/Kg	☼	95	75 - 125	10	20
Chromium	13.6	F1	92.8	95.99		mg/Kg	☼	89	75 - 125	10	20
Lead	21.0		92.8	101.7		mg/Kg	☼	87	75 - 125	3	20
Selenium	ND	F1	92.8	80.90		mg/Kg	☼	87	75 - 125	11	20
Silver	ND	F1	92.9	44.43	F1	mg/Kg	☼	48	75 - 125	5	20

Lab Sample ID: 620-17450-7 DU
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (0-5)
Prep Type: Total/NA
Prep Batch: 33090

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	ND	F1	ND		mg/Kg	☼	NC	20
Cadmium	ND		ND		mg/Kg	☼	NC	20
Chromium	13.6	F1	12.73		mg/Kg	☼	7	20
Lead	21.0		25.81		mg/Kg	☼	20	20
Selenium	ND	F1	ND		mg/Kg	☼	NC	20
Silver	ND	F1	ND		mg/Kg	☼	NC	20

Lab Sample ID: MB 620-33121/1-A
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33121

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0150	mg/L		03/26/24 15:40	03/27/24 13:11	1

Lab Sample ID: LCS 620-33121/2-A
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33121

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	2.00	1.976		mg/L		99	80 - 120

Lab Sample ID: LB 620-32864/1-B
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 33121

Analyte	LB Result	LB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0150	mg/L		03/26/24 15:40	03/27/24 13:59	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-17450-8 MS
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (5-10)
Prep Type: TCLP
Prep Batch: 33121

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	ND		2.00	1.724		mg/L		86	75 - 125

Lab Sample ID: 620-17450-8 MSD
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (5-10)
Prep Type: TCLP
Prep Batch: 33121

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	ND		2.00	1.767		mg/L		88	75 - 125	2	20

Lab Sample ID: 620-17450-8 DU
Matrix: Solid
Analysis Batch: 33178

Client Sample ID: Comp (5-10)
Prep Type: TCLP
Prep Batch: 33121

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	ND		ND		mg/L		NC	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 620-32865/1-A
Matrix: Solid
Analysis Batch: 32883

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32865

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0500		mg/Kg		03/19/24 11:28	03/19/24 15:14	1

Lab Sample ID: LCSSRM 620-32865/2-A ^20
Matrix: Solid
Analysis Batch: 32883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32865

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury			25.5	22.86		mg/Kg		89.6	71.4 - 125.1

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 410-485688/1
Matrix: Solid
Analysis Batch: 485688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Flashpoint			81.0	80.00		Degrees F		99	96.9 - 103.1

Lab Sample ID: LCSD 410-485688/2
Matrix: Solid
Analysis Batch: 485688

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Flashpoint			81.0	79.00		Degrees F		98	96.9 - 103.1	1	4

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 410-486607/1-A
Matrix: Solid
Analysis Batch: 486903

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 486607

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	ND		60.0		mg/Kg		03/25/24 08:25	03/25/24 16:36	1

Lab Sample ID: LCS 410-486607/2-A
Matrix: Solid
Analysis Batch: 486903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486607

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Reactive			1000	ND		mg/Kg		3	0 - 5.14		

Lab Sample ID: LCSD 410-486607/3-A
Matrix: Solid
Analysis Batch: 486903

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 486607

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Reactive			1000	ND		mg/Kg		3	0 - 5.14	11	11

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 410-486607/1-A
Matrix: Solid
Analysis Batch: 486731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 486607

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	ND		160		mg/Kg		03/25/24 08:25	03/25/24 12:45	1

Lab Sample ID: LCS 410-486607/26-A
Matrix: Solid
Analysis Batch: 486731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 486607

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide, Reactive			538	394.3		mg/Kg		73	62 - 104		

Lab Sample ID: LCSD 410-486607/27-A
Matrix: Solid
Analysis Batch: 486731

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 486607

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide, Reactive			538	404.2		mg/Kg		75	62 - 104	2	21

Method: 9045D - pH

Lab Sample ID: LCDSRM 620-33213/6
Matrix: Solid
Analysis Batch: 33213

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
pH			6.00	6.1		SU		100.8	97.5 - 102.5	1	5

Method: 9045D - pH (Continued)

Lab Sample ID: LCSSRM 620-33213/5
Matrix: Solid
Analysis Batch: 33213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
pH			6.00	6.0		SU		100.2	97.5 - 102.5		

Lab Sample ID: MB 620-33195/1-A
Matrix: Solid
Analysis Batch: 33213

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6				SU			03/28/24 11:32	1
Temperature	23.4				Degrees C			03/28/24 11:32	1

Lab Sample ID: 620-17450-7 DU
Matrix: Solid
Analysis Batch: 33213

Client Sample ID: Comp (0-5)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	8.4			8.6		SU				2	5
Temperature	23.4			23.4		Degrees C				0	5

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 410-485914/4
Matrix: Solid
Analysis Batch: 485914

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		300		mg/Kg			03/21/24 12:15	1

Lab Sample ID: LCS 410-485914/3
Matrix: Solid
Analysis Batch: 485914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon			3920	4950		mg/Kg		126	36 - 163		

Lab Sample ID: 620-17450-7 MS
Matrix: Solid
Analysis Batch: 485914

Client Sample ID: Comp (0-5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Organic Carbon	4780	F1	177000	24340	F1	mg/Kg		11	36 - 163		

Lab Sample ID: 620-17450-7 MSD
Matrix: Solid
Analysis Batch: 485914

Client Sample ID: Comp (0-5)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	4780	F1	17500	23530		mg/Kg		107	36 - 163	3	20

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: LCDSRM 620-33209/3
Matrix: Solid
Analysis Batch: 33209

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Specific Conductance			1410	1405		uS/cm		99.4	95.0 - 105.0	0	20

Lab Sample ID: LCSSRM 620-33209/2
Matrix: Solid
Analysis Batch: 33209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Specific Conductance			1410	1402		uS/cm		99.2	95.0 - 105.0		

Lab Sample ID: MB 620-33195/1-A
Matrix: Solid
Analysis Batch: 33209

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		10.0		uS/cm			03/28/24 11:04	1

Lab Sample ID: 620-17450-7 DU
Matrix: Solid
Analysis Batch: 33209

Client Sample ID: Comp (0-5)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Specific Conductance	1200			1171		uS/cm				2	5

GC/MS VOA

Pre Prep Batch: 32834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-1	ATC-3 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-2	ATC-3 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-3	ATC-2 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-4	ATC-2 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-5	ATC-1 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-6	ATC-1 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-9	ATC-8 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-10	ATC-8 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-11	ATC-7 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-12	ATC-7 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-13	ATC-6 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-14	ATC-6 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-15	ATC-4 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-16	ATC-4 (5-10)	Total/NA	Solid	Frozen Preserve	
620-17450-17	ATC-5 (0-5)	Total/NA	Solid	Frozen Preserve	
620-17450-18	ATC-5 (5-10)	Total/NA	Solid	Frozen Preserve	

Prep Batch: 33086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-1	ATC-3 (0-5)	Total/NA	Solid	5035	32834
620-17450-2	ATC-3 (5-10)	Total/NA	Solid	5035	32834
620-17450-3	ATC-2 (0-5)	Total/NA	Solid	5035	32834
620-17450-4	ATC-2 (5-10)	Total/NA	Solid	5035	32834
620-17450-5	ATC-1 (0-5)	Total/NA	Solid	5035	32834
620-17450-6	ATC-1 (5-10)	Total/NA	Solid	5035	32834
620-17450-9	ATC-8 (0-5)	Total/NA	Solid	5035	32834
620-17450-10	ATC-8 (5-10)	Total/NA	Solid	5035	32834
620-17450-11	ATC-7 (0-5)	Total/NA	Solid	5035	32834
620-17450-12	ATC-7 (5-10)	Total/NA	Solid	5035	32834
620-17450-13	ATC-6 (0-5)	Total/NA	Solid	5035	32834
620-17450-14	ATC-6 (5-10)	Total/NA	Solid	5035	32834
620-17450-15	ATC-4 (0-5)	Total/NA	Solid	5035	32834
620-17450-16	ATC-4 (5-10)	Total/NA	Solid	5035	32834
620-17450-17	ATC-5 (0-5)	Total/NA	Solid	5035	32834
620-17450-18	ATC-5 (5-10)	Total/NA	Solid	5035	32834
MB 620-33086/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-33086/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-33086/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC/MS VOA

Analysis Batch: 33087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-1	ATC-3 (0-5)	Total/NA	Solid	8260C	33086
620-17450-2	ATC-3 (5-10)	Total/NA	Solid	8260C	33086
620-17450-3	ATC-2 (0-5)	Total/NA	Solid	8260C	33086
620-17450-4	ATC-2 (5-10)	Total/NA	Solid	8260C	33086
620-17450-5	ATC-1 (0-5)	Total/NA	Solid	8260C	33086
620-17450-6	ATC-1 (5-10)	Total/NA	Solid	8260C	33086
620-17450-9	ATC-8 (0-5)	Total/NA	Solid	8260C	33086
620-17450-10	ATC-8 (5-10)	Total/NA	Solid	8260C	33086
620-17450-11	ATC-7 (0-5)	Total/NA	Solid	8260C	33086
620-17450-12	ATC-7 (5-10)	Total/NA	Solid	8260C	33086
620-17450-13	ATC-6 (0-5)	Total/NA	Solid	8260C	33086
620-17450-14	ATC-6 (5-10)	Total/NA	Solid	8260C	33086
620-17450-15	ATC-4 (0-5)	Total/NA	Solid	8260C	33086
620-17450-16	ATC-4 (5-10)	Total/NA	Solid	8260C	33086
620-17450-17	ATC-5 (0-5)	Total/NA	Solid	8260C	33086
620-17450-18	ATC-5 (5-10)	Total/NA	Solid	8260C	33086
MB 620-33086/3-A	Method Blank	Total/NA	Solid	8260C	33086
LCS 620-33086/1-A	Lab Control Sample	Total/NA	Solid	8260C	33086
LCSD 620-33086/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	33086

GC/MS Semi VOA

Prep Batch: 32927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	3546	
620-17450-8	Comp (5-10)	Total/NA	Solid	3546	
MB 620-32927/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-32927/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-32927/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 32951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	8270D	32927
620-17450-8	Comp (5-10)	Total/NA	Solid	8270D	32927
MB 620-32927/1-A	Method Blank	Total/NA	Solid	8270D	32927
LCS 620-32927/2-A	Lab Control Sample	Total/NA	Solid	8270D	32927
LCSD 620-32927/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	32927

Analysis Batch: 32952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	8270D_LL_PAH	32927
620-17450-8	Comp (5-10)	Total/NA	Solid	8270D_LL_PAH	32927
MB 620-32927/1-A	Method Blank	Total/NA	Solid	8270D_LL_PAH	32927

GC Semi VOA

Prep Batch: 32873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	3540C	
620-17450-8	Comp (5-10)	Total/NA	Solid	3540C	

GC Semi VOA

Prep Batch: 32878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	3546	
620-17450-8	Comp (5-10)	Total/NA	Solid	3546	
MB 620-32878/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-32878/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-32878/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 32965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	8100	32878
620-17450-8	Comp (5-10)	Total/NA	Solid	8100	32878
MB 620-32878/1-A	Method Blank	Total/NA	Solid	8100	32878
LCS 620-32878/2-A	Lab Control Sample	Total/NA	Solid	8100	32878
LCSD 620-32878/3-A	Lab Control Sample Dup	Total/NA	Solid	8100	32878

Analysis Batch: 32987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	8082	32873
620-17450-8	Comp (5-10)	Total/NA	Solid	8082	32873

Metals

Leach Batch: 32864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	TCLP	Solid	1311	
620-17450-8	Comp (5-10)	TCLP	Solid	1311	
LB 620-32864/1-B	Method Blank	TCLP	Solid	1311	
620-17450-8 MS	Comp (5-10)	TCLP	Solid	1311	
620-17450-8 MSD	Comp (5-10)	TCLP	Solid	1311	
620-17450-8 DU	Comp (5-10)	TCLP	Solid	1311	

Prep Batch: 32865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	7471B	
620-17450-8	Comp (5-10)	Total/NA	Solid	7471B	
MB 620-32865/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 620-32865/2-A ^20	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 32883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	7471A	32865
620-17450-8	Comp (5-10)	Total/NA	Solid	7471A	32865
MB 620-32865/1-A	Method Blank	Total/NA	Solid	7471A	32865
LCSSRM 620-32865/2-A ^20	Lab Control Sample	Total/NA	Solid	7471A	32865

Prep Batch: 33090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	3050B	
620-17450-8	Comp (5-10)	Total/NA	Solid	3050B	
MB 620-33090/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 620-33090/2-A	Lab Control Sample	Total/NA	Solid	3050B	
620-17450-7 MS	Comp (0-5)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 33090 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7 MSD	Comp (0-5)	Total/NA	Solid	3050B	
620-17450-7 DU	Comp (0-5)	Total/NA	Solid	3050B	

Prep Batch: 33121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	TCLP	Solid	3010A	32864
620-17450-8	Comp (5-10)	TCLP	Solid	3010A	32864
LB 620-32864/1-B	Method Blank	TCLP	Solid	3010A	32864
MB 620-33121/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 620-33121/2-A	Lab Control Sample	Total/NA	Solid	3010A	
620-17450-8 MS	Comp (5-10)	TCLP	Solid	3010A	32864
620-17450-8 MSD	Comp (5-10)	TCLP	Solid	3010A	32864
620-17450-8 DU	Comp (5-10)	TCLP	Solid	3010A	32864

Analysis Batch: 33178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	TCLP	Solid	6010D	33121
620-17450-7	Comp (0-5)	Total/NA	Solid	6010D	33090
620-17450-8	Comp (5-10)	TCLP	Solid	6010D	33121
620-17450-8	Comp (5-10)	Total/NA	Solid	6010D	33090
LB 620-32864/1-B	Method Blank	TCLP	Solid	6010D	33121
MB 620-33090/1-A	Method Blank	Total/NA	Solid	6010D	33090
MB 620-33121/1-A	Method Blank	Total/NA	Solid	6010D	33121
LCS 620-33121/2-A	Lab Control Sample	Total/NA	Solid	6010D	33121
LCSSRM 620-33090/2-A	Lab Control Sample	Total/NA	Solid	6010D	33090
620-17450-7 MS	Comp (0-5)	Total/NA	Solid	6010D	33090
620-17450-7 MSD	Comp (0-5)	Total/NA	Solid	6010D	33090
620-17450-8 MS	Comp (5-10)	TCLP	Solid	6010D	33121
620-17450-8 MSD	Comp (5-10)	TCLP	Solid	6010D	33121
620-17450-7 DU	Comp (0-5)	Total/NA	Solid	6010D	33090
620-17450-8 DU	Comp (5-10)	TCLP	Solid	6010D	33121

General Chemistry

Analysis Batch: 32837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-1	ATC-3 (0-5)	Total/NA	Solid	Moisture	
620-17450-2	ATC-3 (5-10)	Total/NA	Solid	Moisture	
620-17450-3	ATC-2 (0-5)	Total/NA	Solid	Moisture	
620-17450-4	ATC-2 (5-10)	Total/NA	Solid	Moisture	
620-17450-5	ATC-1 (0-5)	Total/NA	Solid	Moisture	
620-17450-6	ATC-1 (5-10)	Total/NA	Solid	Moisture	
620-17450-7	Comp (0-5)	Total/NA	Solid	Moisture	
620-17450-8	Comp (5-10)	Total/NA	Solid	Moisture	
620-17450-9	ATC-8 (0-5)	Total/NA	Solid	Moisture	
620-17450-10	ATC-8 (5-10)	Total/NA	Solid	Moisture	
620-17450-11	ATC-7 (0-5)	Total/NA	Solid	Moisture	
620-17450-12	ATC-7 (5-10)	Total/NA	Solid	Moisture	
620-17450-13	ATC-6 (0-5)	Total/NA	Solid	Moisture	
620-17450-14	ATC-6 (5-10)	Total/NA	Solid	Moisture	
MB 620-32837/1	Method Blank	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 32837 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-8 DU	Comp (5-10)	Total/NA	Solid	Moisture	

Analysis Batch: 32858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-15	ATC-4 (0-5)	Total/NA	Solid	Moisture	
620-17450-16	ATC-4 (5-10)	Total/NA	Solid	Moisture	
620-17450-17	ATC-5 (0-5)	Total/NA	Solid	Moisture	
620-17450-18	ATC-5 (5-10)	Total/NA	Solid	Moisture	
MB 620-32858/1	Method Blank	Total/NA	Solid	Moisture	
620-17450-15 DU	ATC-4 (0-5)	Total/NA	Solid	Moisture	

Leach Batch: 33195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Soluble	Solid	DI Leach	
620-17450-8	Comp (5-10)	Soluble	Solid	DI Leach	
MB 620-33195/1-A	Method Blank	Soluble	Solid	DI Leach	
620-17450-7 DU	Comp (0-5)	Soluble	Solid	DI Leach	

Analysis Batch: 33209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Soluble	Solid	SM 2510B	33195
620-17450-8	Comp (5-10)	Soluble	Solid	SM 2510B	33195
MB 620-33195/1-A	Method Blank	Soluble	Solid	SM 2510B	33195
LCDSRM 620-33209/3	Lab Control Sample Dup	Total/NA	Solid	SM 2510B	
LCSSRM 620-33209/2	Lab Control Sample	Total/NA	Solid	SM 2510B	
620-17450-7 DU	Comp (0-5)	Soluble	Solid	SM 2510B	33195

Analysis Batch: 33213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Soluble	Solid	9045D	33195
620-17450-8	Comp (5-10)	Soluble	Solid	9045D	33195
MB 620-33195/1-A	Method Blank	Soluble	Solid	9045D	33195
LCDSRM 620-33213/6	Lab Control Sample Dup	Total/NA	Solid	9045D	
LCSSRM 620-33213/5	Lab Control Sample	Total/NA	Solid	9045D	
620-17450-7 DU	Comp (0-5)	Soluble	Solid	9045D	33195

Analysis Batch: 485688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	1010A	
620-17450-8	Comp (5-10)	Total/NA	Solid	1010A	
LCS 410-485688/1	Lab Control Sample	Total/NA	Solid	1010A	
LCSD 410-485688/2	Lab Control Sample Dup	Total/NA	Solid	1010A	

Analysis Batch: 485914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	9060	
620-17450-8	Comp (5-10)	Total/NA	Solid	9060	
MB 410-485914/4	Method Blank	Total/NA	Solid	9060	
LCS 410-485914/3	Lab Control Sample	Total/NA	Solid	9060	
620-17450-7 MS	Comp (0-5)	Total/NA	Solid	9060	
620-17450-7 MSD	Comp (0-5)	Total/NA	Solid	9060	

QC Association Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

General Chemistry

Prep Batch: 486607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	7.3.4	
620-17450-8	Comp (5-10)	Total/NA	Solid	7.3.4	
MB 410-486607/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 410-486607/26-A	Lab Control Sample	Total/NA	Solid	7.3.4	
LCS 410-486607/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	
LCSD 410-486607/27-A	Lab Control Sample Dup	Total/NA	Solid	7.3.4	
LCSD 410-486607/3-A	Lab Control Sample Dup	Total/NA	Solid	7.3.4	

Analysis Batch: 486731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	9034	486607
620-17450-8	Comp (5-10)	Total/NA	Solid	9034	486607
MB 410-486607/1-A	Method Blank	Total/NA	Solid	9034	486607
LCS 410-486607/26-A	Lab Control Sample	Total/NA	Solid	9034	486607
LCSD 410-486607/27-A	Lab Control Sample Dup	Total/NA	Solid	9034	486607

Analysis Batch: 486903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-17450-7	Comp (0-5)	Total/NA	Solid	9012	486607
620-17450-8	Comp (5-10)	Total/NA	Solid	9012	486607
MB 410-486607/1-A	Method Blank	Total/NA	Solid	9012	486607
LCS 410-486607/2-A	Lab Control Sample	Total/NA	Solid	9012	486607
LCSD 410-486607/3-A	Lab Control Sample Dup	Total/NA	Solid	9012	486607

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-3 (0-5)
Lab Sample ID: 620-17450-1
Date Collected: 03/15/24 09:10
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-3 (0-5)
Lab Sample ID: 620-17450-1
Date Collected: 03/15/24 09:10
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/15/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 12:08

Client Sample ID: ATC-3 (5-10)
Lab Sample ID: 620-17450-2
Date Collected: 03/15/24 09:30
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-3 (5-10)
Lab Sample ID: 620-17450-2
Date Collected: 03/15/24 09:30
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/15/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 12:33

Client Sample ID: ATC-2 (0-5)
Lab Sample ID: 620-17450-3
Date Collected: 03/15/24 10:15
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-2 (0-5)
Lab Sample ID: 620-17450-3
Date Collected: 03/15/24 10:15
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/15/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 12:58

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-2 (5-10)
Lab Sample ID: 620-17450-4
Date Collected: 03/15/24 11:00
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-2 (5-10)
Lab Sample ID: 620-17450-4
Date Collected: 03/15/24 11:00
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/15/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 13:23

Client Sample ID: ATC-1 (0-5)
Lab Sample ID: 620-17450-5
Date Collected: 03/15/24 11:20
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-1 (0-5)
Lab Sample ID: 620-17450-5
Date Collected: 03/15/24 11:20
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/15/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 13:49

Client Sample ID: ATC-1 (5-10)
Lab Sample ID: 620-17450-6
Date Collected: 03/15/24 11:30
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-1 (5-10)
Lab Sample ID: 620-17450-6
Date Collected: 03/15/24 11:30
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/15/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 14:14

Client Sample ID: Comp (0-5)
Lab Sample ID: 620-17450-7

Date Collected: 03/15/24 12:00
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			32864	MEM	EET NE	03/19/24 10:35 - 03/20/24 09:30 [1]
TCLP	Prep	3010A			33121	JPC	EET NE	03/26/24 15:40
TCLP	Analysis	6010D		1	33178	JPC	EET NE	03/27/24 13:47
Total/NA	Analysis	1010A		1	485688	USAE	ELLE	03/21/24 10:01 - 03/21/24 10:01 [1]
Total/NA	Prep	7.3.4			486607	USE1	ELLE	03/25/24 08:25
Total/NA	Analysis	9012		1	486903	JCG7	ELLE	03/25/24 17:06
Total/NA	Prep	7.3.4			486607	USE1	ELLE	03/25/24 08:25
Total/NA	Analysis	9034		1	486731	USE1	ELLE	03/25/24 12:45
Soluble	Leach	DI Leach			33195	ODO	EET NE	03/28/24 10:08
Soluble	Analysis	9045D		1	33213	ODO	EET NE	03/28/24 11:32
Total/NA	Analysis	9060		1	485914	P684	ELLE	03/21/24 13:08
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42
Soluble	Leach	DI Leach			33195	ODO	EET NE	03/28/24 10:08
Soluble	Analysis	SM 2510B		1	33209	ODO	EET NE	03/28/24 11:04

Client Sample ID: Comp (0-5)
Lab Sample ID: 620-17450-7

Date Collected: 03/15/24 12:00
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			32927	JAC	EET NE	03/21/24 08:36
Total/NA	Analysis	8270D		1	32951	JS	EET NE	03/21/24 15:49
Total/NA	Prep	3546			32927	JAC	EET NE	03/21/24 08:36
Total/NA	Analysis	8270D_LL_PAH		1	32952	JS	EET NE	03/21/24 15:49
Total/NA	Prep	3540C			32873	JAC	EET NE	03/19/24 14:48
Total/NA	Analysis	8082		1	32987	BMH	EET NE	03/21/24 23:56
Total/NA	Prep	3546			32878	JAC	EET NE	03/19/24 17:07
Total/NA	Analysis	8100		1	32965	JS	EET NE	03/21/24 15:35
Total/NA	Prep	3050B			33090	PRB	EET NE	03/26/24 08:24
Total/NA	Analysis	6010D		2	33178	JPC	EET NE	03/27/24 14:54
Total/NA	Prep	7471B			32865	PRB	EET NE	03/19/24 11:28
Total/NA	Analysis	7471A		1	32883	PRB	EET NE	03/19/24 15:44

Client Sample ID: Comp (5-10)
Lab Sample ID: 620-17450-8

Date Collected: 03/15/24 12:15
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			32864	MEM	EET NE	03/19/24 10:35 - 03/20/24 09:30 [1]
TCLP	Prep	3010A			33121	JPC	EET NE	03/26/24 15:40
TCLP	Analysis	6010D		1	33178	JPC	EET NE	03/27/24 13:23
Total/NA	Analysis	1010A		1	485688	USAE	ELLE	03/21/24 10:01 - 03/21/24 10:01 [1]
Total/NA	Prep	7.3.4			486607	USE1	ELLE	03/25/24 08:25
Total/NA	Analysis	9012		1	486903	JCG7	ELLE	03/25/24 17:07

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: Comp (5-10)
Lab Sample ID: 620-17450-8
Date Collected: 03/15/24 12:15
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7.3.4			486607	USE1	ELLE	03/25/24 08:25
Total/NA	Analysis	9034		1	486731	USE1	ELLE	03/25/24 12:45
Soluble	Leach	DI Leach			33195	ODO	EET NE	03/28/24 10:08
Soluble	Analysis	9045D		1	33213	ODO	EET NE	03/28/24 11:32
Total/NA	Analysis	9060		1	485914	P684	ELLE	03/21/24 13:29
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42
Soluble	Leach	DI Leach			33195	ODO	EET NE	03/28/24 10:08
Soluble	Analysis	SM 2510B		1	33209	ODO	EET NE	03/28/24 11:04

Client Sample ID: Comp (5-10)
Lab Sample ID: 620-17450-8
Date Collected: 03/15/24 12:15
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			32927	JAC	EET NE	03/21/24 08:36
Total/NA	Analysis	8270D		1	32951	JS	EET NE	03/21/24 16:14
Total/NA	Prep	3546			32927	JAC	EET NE	03/21/24 08:36
Total/NA	Analysis	8270D_LL_PAH		1	32952	JS	EET NE	03/21/24 16:14
Total/NA	Prep	3540C			32873	JAC	EET NE	03/19/24 14:48
Total/NA	Analysis	8082		1	32987	BMH	EET NE	03/22/24 00:14
Total/NA	Prep	3546			32878	JAC	EET NE	03/19/24 17:07
Total/NA	Analysis	8100		1	32965	JS	EET NE	03/21/24 15:57
Total/NA	Prep	3050B			33090	PRB	EET NE	03/26/24 08:24
Total/NA	Analysis	6010D		2	33178	JPC	EET NE	03/27/24 15:18
Total/NA	Prep	7471B			32865	PRB	EET NE	03/19/24 11:28
Total/NA	Analysis	7471A		1	32883	PRB	EET NE	03/19/24 15:46

Client Sample ID: ATC-8 (0-5)
Lab Sample ID: 620-17450-9
Date Collected: 03/14/24 10:00
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-8 (0-5)
Lab Sample ID: 620-17450-9
Date Collected: 03/14/24 10:00
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 14:40

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-8 (5-10)
Lab Sample ID: 620-17450-10
Date Collected: 03/14/24 11:50
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-8 (5-10)
Lab Sample ID: 620-17450-10
Date Collected: 03/14/24 11:50
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 15:06

Client Sample ID: ATC-7 (0-5)
Lab Sample ID: 620-17450-11
Date Collected: 03/14/24 11:10
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-7 (0-5)
Lab Sample ID: 620-17450-11
Date Collected: 03/14/24 11:10
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 15:31

Client Sample ID: ATC-7 (5-10)
Lab Sample ID: 620-17450-12
Date Collected: 03/14/24 12:10
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-7 (5-10)
Lab Sample ID: 620-17450-12
Date Collected: 03/14/24 12:10
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 15:57

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-6 (0-5)
Lab Sample ID: 620-17450-13
Date Collected: 03/14/24 12:30
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-6 (0-5)
Lab Sample ID: 620-17450-13
Date Collected: 03/14/24 12:30
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 16:24

Client Sample ID: ATC-6 (5-10)
Lab Sample ID: 620-17450-14
Date Collected: 03/14/24 12:45
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32837	MEM	EET NE	03/19/24 07:42

Client Sample ID: ATC-6 (5-10)
Lab Sample ID: 620-17450-14
Date Collected: 03/14/24 12:45
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 16:50

Client Sample ID: ATC-4 (0-5)
Lab Sample ID: 620-17450-15
Date Collected: 03/14/24 13:40
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32858	MEM	EET NE	03/19/24 09:21

Client Sample ID: ATC-4 (0-5)
Lab Sample ID: 620-17450-15
Date Collected: 03/14/24 13:40
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 17:15

Lab Chronicle

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Client Sample ID: ATC-4 (5-10)
Lab Sample ID: 620-17450-16
Date Collected: 03/14/24 13:55
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32858	MEM	EET NE	03/19/24 09:21

Client Sample ID: ATC-4 (5-10)
Lab Sample ID: 620-17450-16
Date Collected: 03/14/24 13:55
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 17:41

Client Sample ID: ATC-5 (0-5)
Lab Sample ID: 620-17450-17
Date Collected: 03/14/24 14:25
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32858	MEM	EET NE	03/19/24 09:21

Client Sample ID: ATC-5 (0-5)
Lab Sample ID: 620-17450-17
Date Collected: 03/14/24 14:25
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 18:07

Client Sample ID: ATC-5 (5-10)
Lab Sample ID: 620-17450-18
Date Collected: 03/14/24 12:10
Matrix: Solid
Date Received: 03/18/24 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	32858	MEM	EET NE	03/19/24 09:21

Client Sample ID: ATC-5 (5-10)
Lab Sample ID: 620-17450-18
Date Collected: 03/14/24 12:10
Matrix: Solid
Date Received: 03/18/24 15:25
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			32834	KFS	EET NE	03/14/24 15:00
Total/NA	Prep	5035			33086	CLR	EET NE	03/26/24 07:37
Total/NA	Analysis	8260C		1	33087	CLR	EET NE	03/26/24 18:33

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Laboratory: Eurofins New England

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6010D	3010A	Solid	Lead
6010D	3050B	Solid	Arsenic
6010D	3050B	Solid	Barium
6010D	3050B	Solid	Cadmium
6010D	3050B	Solid	Chromium
6010D	3050B	Solid	Lead
6010D	3050B	Solid	Selenium
6010D	3050B	Solid	Silver
7471A	7471B	Solid	Mercury
8082	3540C	Solid	PCB-1016
8082	3540C	Solid	PCB-1221
8082	3540C	Solid	PCB-1232
8082	3540C	Solid	PCB-1242
8082	3540C	Solid	PCB-1248
8082	3540C	Solid	PCB-1254
8082	3540C	Solid	PCB-1260
8082	3540C	Solid	PCB-1262
8082	3540C	Solid	PCB-1268
8100	3546	Solid	TEPH (C9-C36)
8260C	5035	Solid	1,1,1,2-Tetrachloroethane
8260C	5035	Solid	1,1,1-Trichloroethane
8260C	5035	Solid	1,1,2,2-Tetrachloroethane
8260C	5035	Solid	1,1,2-Trichloroethane
8260C	5035	Solid	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C	5035	Solid	1,1-Dichloroethane
8260C	5035	Solid	1,1-Dichloroethene
8260C	5035	Solid	1,1-Dichloropropene
8260C	5035	Solid	1,2,3-Trichlorobenzene
8260C	5035	Solid	1,2,3-Trichloropropane
8260C	5035	Solid	1,2,4-Trichlorobenzene
8260C	5035	Solid	1,2,4-Trimethylbenzene
8260C	5035	Solid	1,2-Dibromo-3-Chloropropane
8260C	5035	Solid	1,2-Dibromoethane (EDB)
8260C	5035	Solid	1,2-Dichlorobenzene
8260C	5035	Solid	1,2-Dichloroethane
8260C	5035	Solid	1,2-Dichloropropane
8260C	5035	Solid	1,3,5-Trichlorobenzene
8260C	5035	Solid	1,3,5-Trimethylbenzene
8260C	5035	Solid	1,3-Dichlorobenzene
8260C	5035	Solid	1,3-Dichloropropane
8260C	5035	Solid	1,3-Dichloropropene, Total
8260C	5035	Solid	1,4-Dichlorobenzene
8260C	5035	Solid	1,4-Dioxane
8260C	5035	Solid	2,2-Dichloropropane
8260C	5035	Solid	2-Butanone (MEK)

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C	5035	Solid	2-Chlorotoluene
8260C	5035	Solid	2-Hexanone (MBK)
8260C	5035	Solid	4-Chlorotoluene
8260C	5035	Solid	4-Isopropyltoluene
8260C	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260C	5035	Solid	Acetone
8260C	5035	Solid	Acrylonitrile
8260C	5035	Solid	Benzene
8260C	5035	Solid	Bromobenzene
8260C	5035	Solid	Bromochloromethane
8260C	5035	Solid	Bromodichloromethane
8260C	5035	Solid	Bromoform
8260C	5035	Solid	Bromomethane
8260C	5035	Solid	Carbon disulfide
8260C	5035	Solid	Carbon tetrachloride
8260C	5035	Solid	Chlorobenzene
8260C	5035	Solid	Chloroethane
8260C	5035	Solid	Chloroform
8260C	5035	Solid	Chloromethane
8260C	5035	Solid	cis-1,2-Dichloroethene
8260C	5035	Solid	cis-1,3-Dichloropropene
8260C	5035	Solid	Dibromochloromethane
8260C	5035	Solid	Dibromomethane
8260C	5035	Solid	Dichlorodifluoromethane (Freon 12)
8260C	5035	Solid	di-Isopropyl ether
8260C	5035	Solid	Ethanol
8260C	5035	Solid	Ethyl ether
8260C	5035	Solid	Ethyl tert-butyl ether
8260C	5035	Solid	Ethylbenzene
8260C	5035	Solid	Hexachlorobutadiene
8260C	5035	Solid	Isopropylbenzene
8260C	5035	Solid	m,p-Xylene
8260C	5035	Solid	Methyl tert-butyl ether
8260C	5035	Solid	Methylene Chloride
8260C	5035	Solid	Naphthalene
8260C	5035	Solid	n-Butylbenzene
8260C	5035	Solid	N-Propylbenzene
8260C	5035	Solid	o-Xylene
8260C	5035	Solid	sec-Butylbenzene
8260C	5035	Solid	Styrene
8260C	5035	Solid	Tert-amyl methyl ether
8260C	5035	Solid	tert-Butanol
8260C	5035	Solid	tert-Butylbenzene
8260C	5035	Solid	Tetrachloroethene
8260C	5035	Solid	Tetrahydrofuran
8260C	5035	Solid	Toluene
8260C	5035	Solid	trans-1,2-Dichloroethene

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C	5035	Solid	trans-1,3-Dichloropropene
8260C	5035	Solid	trans-1,4-Dichloro-2-butene
8260C	5035	Solid	Trichloroethene
8260C	5035	Solid	Trichlorofluoromethane (Freon 11)
8260C	5035	Solid	Vinyl chloride
8260C	5035	Solid	Xylenes, Total
8270D	3546	Solid	1,2,4,5-Tetrachlorobenzene
8270D	3546	Solid	1,2,4-Trichlorobenzene
8270D	3546	Solid	1,2-Dichlorobenzene
8270D	3546	Solid	1,3-Dichlorobenzene
8270D	3546	Solid	1,4-Dichlorobenzene
8270D	3546	Solid	2,4,5-Trichlorophenol
8270D	3546	Solid	2,4,6-Trichlorophenol
8270D	3546	Solid	2,4-Dichlorophenol
8270D	3546	Solid	2,4-Dimethylphenol
8270D	3546	Solid	2,4-Dinitrophenol
8270D	3546	Solid	2,4-Dinitrotoluene
8270D	3546	Solid	2,6-Dinitrotoluene
8270D	3546	Solid	2-Chloronaphthalene
8270D	3546	Solid	2-Chlorophenol
8270D	3546	Solid	2-Methylphenol
8270D	3546	Solid	2-Nitroaniline
8270D	3546	Solid	2-Nitrophenol
8270D	3546	Solid	3 & 4 Methylphenol
8270D	3546	Solid	3,3'-Dichlorobenzidine
8270D	3546	Solid	3-Nitroaniline
8270D	3546	Solid	4,6-Dinitro-2-methylphenol
8270D	3546	Solid	4-Bromophenyl phenyl ether
8270D	3546	Solid	4-Chloro-3-methylphenol
8270D	3546	Solid	4-Chloroaniline
8270D	3546	Solid	4-Chlorophenyl phenyl ether
8270D	3546	Solid	4-Nitroaniline
8270D	3546	Solid	4-Nitrophenol
8270D	3546	Solid	Acetophenone
8270D	3546	Solid	Aniline
8270D	3546	Solid	Azobenzene/Diphenyldiazene
8270D	3546	Solid	Benzidine
8270D	3546	Solid	Benzoic acid
8270D	3546	Solid	Benzyl alcohol
8270D	3546	Solid	bis (2-chloroisopropyl) ether
8270D	3546	Solid	Bis(2-chloroethoxy)methane
8270D	3546	Solid	Bis(2-chloroethyl)ether
8270D	3546	Solid	Bis(2-ethylhexyl) phthalate
8270D	3546	Solid	Butyl benzyl phthalate
8270D	3546	Solid	Carbazole
8270D	3546	Solid	Dibenzofuran
8270D	3546	Solid	Diethyl phthalate

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3546	Solid	Dimethyl phthalate
8270D	3546	Solid	Di-n-butyl phthalate
8270D	3546	Solid	Di-n-octyl phthalate
8270D	3546	Solid	Hexachlorobenzene
8270D	3546	Solid	Hexachlorobutadiene
8270D	3546	Solid	Hexachlorocyclopentadiene
8270D	3546	Solid	Hexachloroethane
8270D	3546	Solid	Isophorone
8270D	3546	Solid	Nitrobenzene
8270D	3546	Solid	N-Nitrosodimethylamine
8270D	3546	Solid	N-Nitrosodi-n-propylamine
8270D	3546	Solid	N-Nitrosodiphenylamine
8270D	3546	Solid	Pentachloronitrobenzene
8270D	3546	Solid	Pentachlorophenol
8270D	3546	Solid	Phenol
8270D	3546	Solid	Pyridine
8270D_LL_PAH	3546	Solid	1-Methylnaphthalene
8270D_LL_PAH	3546	Solid	2-Methylnaphthalene
8270D_LL_PAH	3546	Solid	Acenaphthene
8270D_LL_PAH	3546	Solid	Acenaphthylene
8270D_LL_PAH	3546	Solid	Anthracene
8270D_LL_PAH	3546	Solid	Benzo[a]anthracene
8270D_LL_PAH	3546	Solid	Benzo[a]pyrene
8270D_LL_PAH	3546	Solid	Benzo[b]fluoranthene
8270D_LL_PAH	3546	Solid	Benzo[g,h,i]perylene
8270D_LL_PAH	3546	Solid	Benzo[k]fluoranthene
8270D_LL_PAH	3546	Solid	Bis(2-ethylhexyl) phthalate
8270D_LL_PAH	3546	Solid	Chrysene
8270D_LL_PAH	3546	Solid	Dibenz(a,h)anthracene
8270D_LL_PAH	3546	Solid	Fluoranthene
8270D_LL_PAH	3546	Solid	Fluorene
8270D_LL_PAH	3546	Solid	Indeno[1,2,3-cd]pyrene
8270D_LL_PAH	3546	Solid	Naphthalene
8270D_LL_PAH	3546	Solid	Phenanthrene
8270D_LL_PAH	3546	Solid	Pyrene
9045D		Solid	pH
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids
SM 2510B		Solid	Specific Conductance

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24

Accreditation/Certification Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	43200	01-31-25
Alaska	State	PA00009	06-30-24
Alaska (UST)	State	17-027	02-28-25
Arizona	State	AZ0780	03-12-25
Arkansas DEQ	State	88-00660	08-09-24
California	State	2792	11-30-24
Colorado	State	PA00009	06-30-24
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-25
Delaware (DW)	State	N/A	01-31-25
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-25
Hawaii	State	N/A	01-31-25
Illinois	NELAP	200027	01-31-25
Iowa	State	361	03-01-24 *
Kansas	NELAP	E-10151	10-31-24
Kentucky (DW)	State	KY90088	12-31-24
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23 *
Louisiana (All)	NELAP	02055	06-30-24
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-24
Massachusetts	State	M-PA009	06-30-24
Michigan	State	9930	01-31-25
Minnesota	NELAP	042-999-487	12-31-24
Mississippi	State	023	01-31-25
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-25
New Hampshire	NELAP	2730	01-10-25
New Jersey	NELAP	PA011	06-30-24
New York	NELAP	10670	03-31-24
North Carolina (DW)	State	42705	07-31-24
North Carolina (WW/SW)	State	521	12-31-24
Oklahoma	NELAP	9804	08-31-24
Oregon	NELAP	PA200001	09-11-24
Pennsylvania	NELAP	36-00037	01-28-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-24
Rhode Island	State	LAO00338	12-30-24
South Carolina	State	89002	01-31-24 *
Tennessee	State	02838	01-31-25
Texas	NELAP	T104704194-23-46	08-31-24
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-24
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-24
West Virginia (DW)	State	9906 C	01-31-25
West Virginia DEP	State	055	07-31-24
Wyoming	State	8TMS-L	01-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Atlas Technical Consultants LLC
Job ID: 620-17450-1
Project/Site: Tufts Street Improvement - Somerville, M

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	EET NE
8270D	Semivolatile Organic Compounds (GC/MS)	MA DEP	EET NE
8270D_LL_PAH	Semivolatile Organic Compounds (GC/MS) Low level PAH	SW846	EET NE
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
8100	Polynuclear Aromatic Hydrocarbons (PAHs) (GC)	SW846	EET NE
6010D	Metals (ICP)	SW846	EET NE
7471A	Mercury (CVAA)	SW846	EET NE
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	ELLE
9012	Cyanide, Reactive	SW846	ELLE
9034	Sulfide, Reactive	SW846	ELLE
9045D	pH	SW846	EET NE
9060	Organic Carbon, Total (TOC)	SW846	ELLE
Moisture	Percent Moisture	EPA	EET NE
SM 2510B	Conductivity, Specific Conductance	SM	EET NE
1311	TCLP Extraction	SW846	EET NE
3010A	Preparation, Total Metals	SW846	EET NE
3050B	Preparation, Metals	SW846	EET NE
3540C	Soxhlet Extraction	SW846	EET NE
3546	Microwave Extraction	SW846	EET NE
5035	Closed System Purge and Trap	SW846	EET NE
7.3.3	Cyanide, Reactive	SW846	ELLE
7.3.4	Sulfide, Reactive	SW846	ELLE
7471B	Preparation, Mercury	SW846	EET NE
DI Leach	Deionized Water Leaching Procedure	ASTM	EET NE
Frozen Preserve	Freezing Samples	None	EET NE

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
MA DEP = Massachusetts Department Of Environmental Protection
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Atlas Technical Consultants LLC
Project/Site: Tufts Street Improvement - Somerville, M

Job ID: 620-17450-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-17450-1	ATC-3 (0-5)	Solid	03/15/24 09:10	03/18/24 15:25
620-17450-2	ATC-3 (5-10)	Solid	03/15/24 09:30	03/18/24 15:25
620-17450-3	ATC-2 (0-5)	Solid	03/15/24 10:15	03/18/24 15:25
620-17450-4	ATC-2 (5-10)	Solid	03/15/24 11:00	03/18/24 15:25
620-17450-5	ATC-1 (0-5)	Solid	03/15/24 11:20	03/18/24 15:25
620-17450-6	ATC-1 (5-10)	Solid	03/15/24 11:30	03/18/24 15:25
620-17450-7	Comp (0-5)	Solid	03/15/24 12:00	03/18/24 15:25
620-17450-8	Comp (5-10)	Solid	03/15/24 12:15	03/18/24 15:25
620-17450-9	ATC-8 (0-5)	Solid	03/14/24 10:00	03/18/24 15:25
620-17450-10	ATC-8 (5-10)	Solid	03/14/24 11:50	03/18/24 15:25
620-17450-11	ATC-7 (0-5)	Solid	03/14/24 11:10	03/18/24 15:25
620-17450-12	ATC-7 (5-10)	Solid	03/14/24 12:10	03/18/24 15:25
620-17450-13	ATC-6 (0-5)	Solid	03/14/24 12:30	03/18/24 15:25
620-17450-14	ATC-6 (5-10)	Solid	03/14/24 12:45	03/18/24 15:25
620-17450-15	ATC-4 (0-5)	Solid	03/14/24 13:40	03/18/24 15:25
620-17450-16	ATC-4 (5-10)	Solid	03/14/24 13:55	03/18/24 15:25
620-17450-17	ATC-5 (0-5)	Solid	03/14/24 14:25	03/18/24 15:25
620-17450-18	ATC-5 (5-10)	Solid	03/14/24 12:10	03/18/24 15:25

620-17450 Chain of Custody

17450

CHAIN OF CUSTODY RECORD

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Special Handling:

- ☑ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed _____

All TATs subject to laboratory approval
Min 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: Atlas Technical Consultants LLC
10 State Street, Suite 100
Woburn, MA 01801
Telephone #: 781-404-1431
Project Mgr: Stephan Landry

Invoice To: Atlas
P O No: _____ Quote #: _____

Project No: 6000007464
Site Name: Tufts Street Improvement
Location: Tuftsd St., Somerville MA State: MA
Sampler(s): Eric Marchese

F=Field Filtered 1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= Iced 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= _____ X2= _____ X3= _____

G= Grab C=Composite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	8260 Low Level	Analysis: GUC (unusual CIMS) 8270	PCB 8082	RCRA 8 Metals TCLP Pb	TPH 8100	PH & total organic cyanide	Flashpoint Conductivity	Reactivity cyanide & sulfide	Check if chlorinated
-1	ATC-3 (0-5)	3/15/24	0910	G	SO	3			1	X								☐
-2	ATC-3 (5-10)		0930						1									☐
-3	ATC-2 (0-5)		1015						1									☐
-4	ATC-2 (5-10)		1100						1									☐
-5	ATC-1 (0-5)		1120						1									☐
-6	ATC-1 (5-10)		1130						1									☐
																		☐
-7	Comp (0-5)		1200	C	SO		4				X	X	X	X	X	X	X	☐
-8	Comp (5-10)		1215	C	SO		4				X	X	X	X	X	X	X	☐
																		☐

List Preservative Code below: 7,9 | 11 | 11 | 11 | 11 | 11 | 11 | 11

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☑ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☑ No
☑ Standard ☐ No QC ☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☑ Other: MassDEP S-1
State-specific reporting standards

Relinquished by:	Received by:	Date:	Time:
Eric Marchese	Atlas Fridge	3/15/24	1500
		3/18/24	1240
		3/18/24	1828

Temp °C: Observed 4.2 | Correction Factor +0.2 | Corrected 4.4 | IR ID # 6

☑ EDD format: Stephan.Landry@oneatlas.com
☑ E-mail to: Stephan.Landry@oneatlas.com
DI Samples frozen 3/14/24 at 1500 3/15/24 at 1500

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Sample shipping address: 11 Almgren Drive • Agawam, MA 01001 • 413-789-9018 • www.EurofinsUS.com/Spectrum

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17450

eurofins | Spectrum Analytical

CHAIN OF CUSTODY RECORD

Page 2 of 2

Special Handling:

- ☑ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed _____

All TATs subject to laboratory approval
Min 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: Atlas Technical Consultants LLC
10 State Street, Suite 100
Woburn, MA 01801
Telephone #: 781-404-1431
Project Mgr: Stephan Landry

Invoice To: Atlas
P O No: _____ Quote #: _____

Project No: 6000007464
Site Name: Tufts Street Improvement
Location: Tuftsd St., Somerville MA State: MA
Sampler(s): Eric Marchese

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= iced 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= _____ X2= _____ X3= _____

G= Grab C=Compsite

List Preservative Code below: 7,9

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☑ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☑ No
☑ Standard ☐ No QC ☐ DQA* ☐ ASP A* ☐ ASP B* ☐ NJ Reduced* ☐ NJ Full* ☐ Tier II* ☐ Tier IV*
☑ Other: MassDEP S-1
State-specific reporting standards

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	8260 Low Level	Check if chlorinated
-9	ATC-9 (0-5)	3-14-24	1000	G	SO	3			1	X	☐
-10	ATC-8 (5-10)		1150			1			1		☐
-11	ATC-7 (0-5)		1110			1			1		☐
-12	ATC-7 (5-10)		1210			1			1		☐
-13	ATC-6 (0-5)		1230			1			1		☐
-14	ATC-6 (5-10)		1245			1			1		☐
-15	ATC-64 (0-5)		1340			1			1		☐
-16	ATC-4 (5-10)		1355			1			1		☐
-17	ATC-5 (0-5)		1425			1			1		☐
-18	ATC 5 (5-10)		1510			1			1		☐

Relinquished by:	Received by:	Date:	Time:	Temp °C
Eric Marchese	Atlas Fridge	3/15/24	1500	Observed 4.2
Ken Fox		3/18/24	1240	Correction Factor -0.2
		3/18/24	1525	Corrected 4.4
				IR ID # 6

☑ EDD format. Stephan.Landry@oneatlas com
☑ E-mail to Stephan.Landry@oneatlas com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☑ Refrigerated ☑ DI VOA Frozen ☐ Soil Jar Frozen

4/3/2024 (Rev. 1)

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018 Fax: 413-506-3830

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-13903.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-17450-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/25/2024			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Tufts Street Improvement - Somerville, M	Project #: 62002926			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1010A/ Flashpoint	9060	9012_ReactiveCN/7.3.3	9034_Reactive/7.3.4	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
Comp (0-5) (620-17450-7)	3/15/24	12:00 Eastern		Solid			X	X	X	X	1	
Comp (5-10) (620-17450-8)	3/15/24	12:15 Eastern		Solid			X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/18/24 16:59	ECC			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/19/24 1055	Company ECC

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: Raw 1.8- COR 1.6

Ver: 06/08/2021

MB

Login Sample Receipt Checklist

Client: Atlas Technical Consultants LLC

Job Number: 620-17450-1

Login Number: 17450
List Number: 1
Creator: Scott, Krishnan F

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Atlas Technical Consultants LLC

Job Number: 620-17450-1

Login Number: 17450
List Number: 2
Creator: Ballard, Megan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 03/19/24 12:15 PM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

GEI Consultants

MassDEP RTN 3-23246

Phase V Status Report No. 26 and Remedial Monitoring Report No. 41

50 Tufts Street, Somerville, Massachusetts

Submitted to:
UniFirst Corporation
68 Jonspin Road
Wilmington, MA 01887

Submitted by:
GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801
781.721.4000

August 7, 2024
Project No. 04516-3

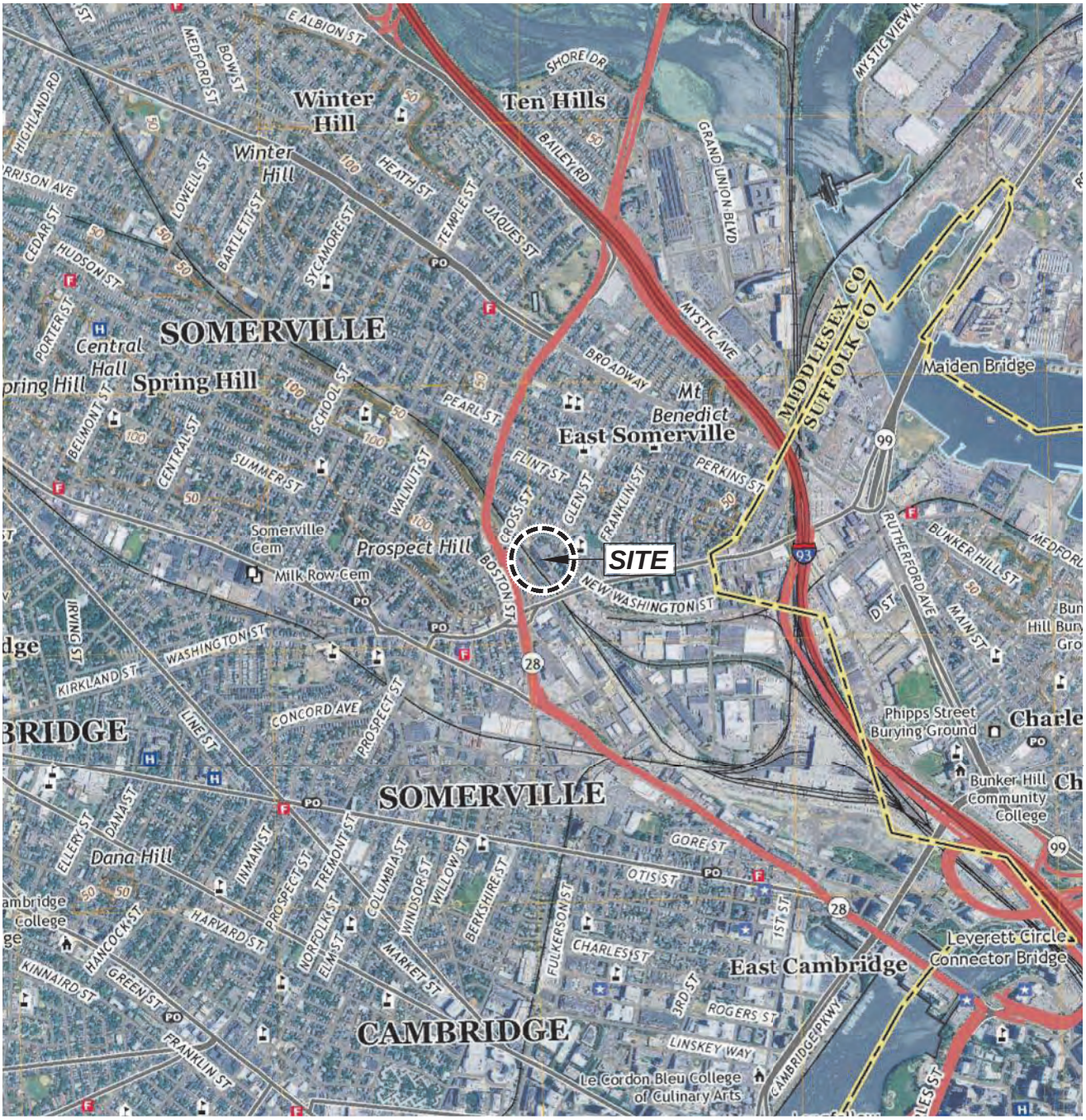
Christopher O. Coner, CHMM
Project Manager

Ileen S. Gladstone, P.E., LSP, LEED AP
Senior Vice President

Table 10-1. Chemical Testing Results - 50 Tufts Street Shallow Soil
Phase V Status Report No. 26 and Remedial Monitoring Report No. 41
50 Tufts Street
Somerville, Massachusetts

			Sample ID:	50TUFT-B101(0-1)	50TUFT-B101(1-3)	50TUFT-B101(3-5)	50TUFT-B102(0-1)	50TUFT-B102(1-3)	50TUFT-B103(0-1)	50TUFT-B103(1-3)	50TUFT-B103(3-5)	50TUFT-B104(0-1)	50TUFT-B104(1-3)	50TUFT-B104(3-5)	50TUFT-B105(0-1)	50TUFT-B105(1-3)
			Sample Date:	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024	2/12/2024
			Sample Depth (ft):	0-1	1-3	3-5	0-1	1-3	0-1	1-3	3-5	0-1	1-3	3-5	0-1	1-3
Analyte	**MCP Upper Concentration Limit (UCL)**	**Units**														
Volatile Organics Compounds (VOCs)		mg/kg														
1,2-Dichloroethene, Total			<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	0.094	<0.061	<0.00063	<0.00057	<0.00067	<0.00088	<0.044	<0.0012
cis-1,2-Dichloroethene	5000		<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	0.094	<0.061	<0.00063	<0.00057	<0.00067	<0.00088	<0.044	<0.0012
Tetrachloroethene	10000		0.0023	<0.00033	0.015	0.00048	0.001	100	2.8	0.00052	0.023	0.015	0.0024	0.81	0.01
Toluene	10000		<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	<0.046	<0.061	<0.00063	<0.00057	<0.00067	<0.00088	0.053	<0.0012
Trichloroethene	600		<0.00037	<0.00033	<0.00026	<0.00032	0.00037	0.24	<0.031	<0.00032	<0.00029	<0.00033	<0.00044	<0.022	<0.00061
General Chemistry																
Solids, Total		%	80	89.7	91.1	93.6	91.6	90.1	81.4	85.7	90.8	79.6	82.3	92.1	82.8

Figures

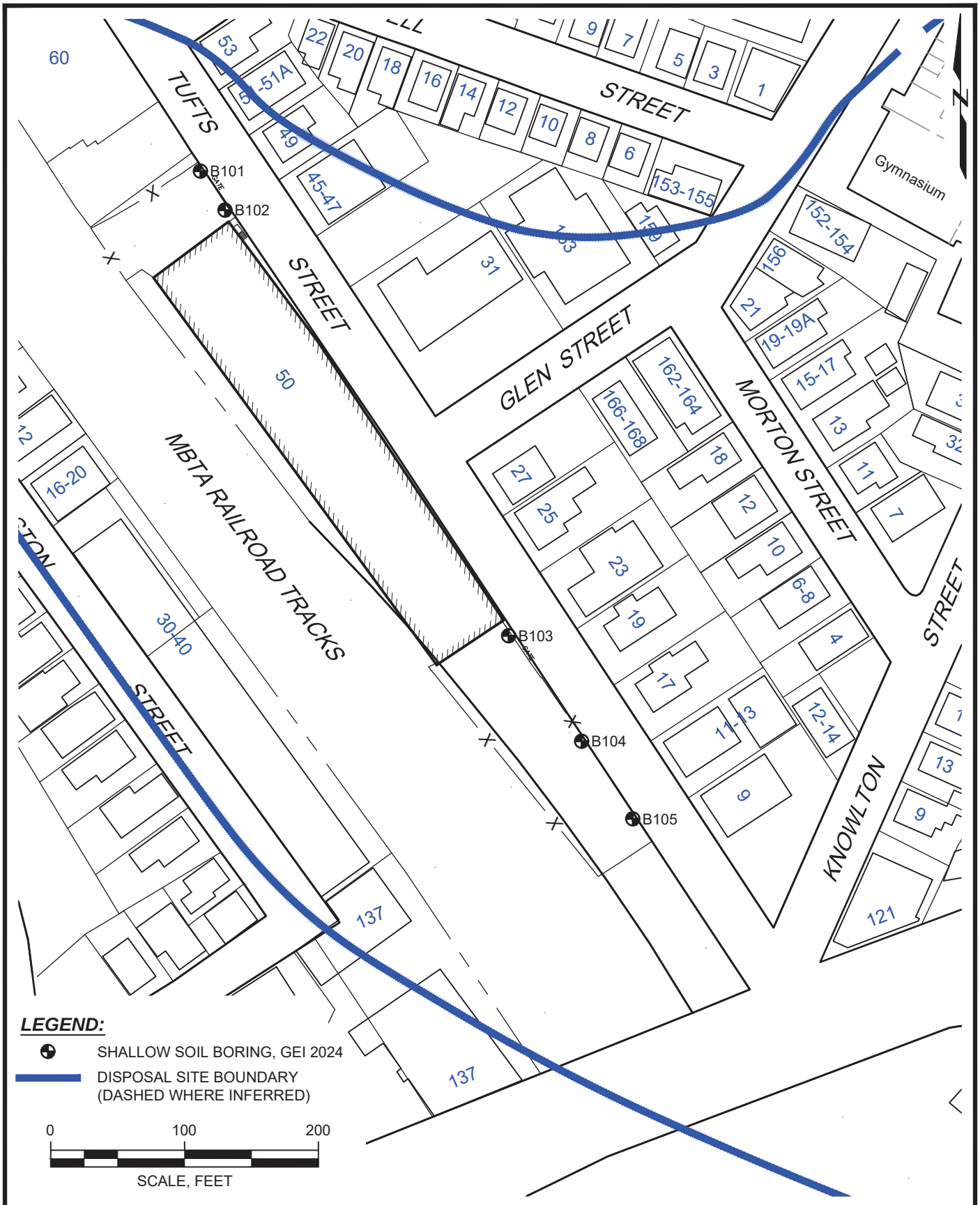


This Image is from U.S.G.S. Topographic 7.5 Minute Series
Boston North, MA Quadrangle, 2018.
Datum is North American Vertical Datum of 1988 (NAVD88).
Contour Interval is 10 Feet.

MASSACHUSETTS
QUADRANGLE LOCATION

Phase V Status Report No. 26 and Remedial Monitoring Report No. 41 50 Tufts Street Somerville, Massachusetts	GEI Consultants	SITE LOCATION MAP
UniFirst Corporation Wilmington, Massachusetts	Project 04516-3	August 2024 Fig. 1

B:\Private\04516\#Drafting\04516-3\Phase V SRs & RMRs\045163 Ph V SR Fig 1-1 slm



Phase V Status Report No. 26 and RMR No. 41 50 Tufts Street Somerville, Massachusetts	GEI Consultants	50 TUFTS STREET SHALLOW SOIL BORING PLAN
Wooden Teeth LLC Wilmington, Massachusetts	Project 045163	August 2024 Fig. 10-1

CLINGEN, PAUL B:\Private\04516\#Drafting\04516-3\Phase V SRs & RMRs\045163 PhV SR SHALLOW BORINGS.dwg - 7/10/2024

ANALYTICAL REPORT

Lab Number:	L2408101
Client:	GEI Consultants 400 Unicorn Park Drive Woburn, MA 01801
ATTN:	Chris Coner
Phone:	(781) 721-4000
Project Name:	TUFTS STREET
Project Number:	045163
Report Date:	02/21/24

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2408101-01	50TUFT-B101(0-1)	SOIL	SOMERVILLE, MA	02/12/24 08:30	02/14/24
L2408101-02	50TUFT-B101(1-3)	SOIL	SOMERVILLE, MA	02/12/24 08:31	02/14/24
L2408101-03	50TUFT-B101(3-5)	SOIL	SOMERVILLE, MA	02/12/24 08:32	02/14/24
L2408101-04	50TUFT-B102(0-1)	SOIL	SOMERVILLE, MA	02/12/24 09:00	02/14/24
L2408101-05	50TUFT-B102(1-3)	SOIL	SOMERVILLE, MA	02/12/24 09:01	02/14/24
L2408101-06	50TUFT-B103(0-1)	SOIL	SOMERVILLE, MA	02/12/24 09:30	02/14/24
L2408101-07	50TUFT-B103(1-3)	SOIL	SOMERVILLE, MA	02/12/24 09:31	02/14/24
L2408101-08	50TUFT-B103(3-5)	SOIL	SOMERVILLE, MA	02/12/24 09:32	02/14/24
L2408101-09	50TUFT-B104(0-1)	SOIL	SOMERVILLE, MA	02/12/24 10:00	02/14/24
L2408101-10	50TUFT-B104(1-3)	SOIL	SOMERVILLE, MA	02/12/24 10:01	02/14/24
L2408101-11	50TUFT-B104(3-5)	SOIL	SOMERVILLE, MA	02/12/24 10:02	02/14/24
L2408101-12	50TUFT-B105(0-1)	SOIL	SOMERVILLE, MA	02/12/24 11:00	02/14/24
L2408101-13	50TUFT-B105(1-3)	SOIL	SOMERVILLE, MA	02/12/24 11:01	02/14/24

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	TUFTS STREET	**Lab Number:**	L2408101
Project Number:	045163	**Report Date:**	02/21/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: TUFTS STREET **Lab Number:** L2408101
Project Number: 045163 **Report Date:** 02/21/24

Case Narrative (continued)

MCP Related Narratives

Volatile Organics

L2408101-06: Initial calibration utilized a quadratic fit for: 1,1-dichloropropene

L2408101-06D: A copy of the continuing calibration standard is included as an addendum to this report.

In reference to question G:

L2408101-06, -07, and -12: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The WG1887347-5 Method Blank, associated with L2408101-06, has a concentration above the reporting limit for chloroform. Since the associated sample concentration is either greater than 10x the blank concentration or non-detect to the RL for this target analyte, no corrective action is required. Any result detected below the reporting limit is qualified with a "B".

L2408101-01, -02, -03, -04, -05, -07, -08, -09, -10, -11, -12, and -13: Initial Calibration did not meet:

Lowest Calibration Standard Minimum Response Factor: bromochloromethane (0.0979), bromodichloromethane (0.2758), 1,4-dioxane (0.0014), cis-1,3-dichloropropene (0.2950), 1,1,2-trichloroethane (0.1932)

Average Response Factor: 1,4-dioxane

Verification: carbon disulfide (69%)

L2408101-06: Initial Calibration did not meet:

Lowest Calibration Standard Minimum Response Factor: 1,4-dioxane (0.0018)

Average Response Factor: 1,4-dioxane

L2408101-01, -02, -03, -04, -05, -06, -07, -08, -09, -10, -11, -12, and -13: The associated continuing calibration standard is outside the acceptance criteria for several compounds; however, it is within overall method allowances. Associated results are considered to be biased high if the %D is negative and biased low if the %D is positive. A copy of the continuing calibration standard is included as an addendum to this report.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly O'Neill

Title: Technical Director/Representative Date: 02/21/24

QC OUTLIER SUMMARY REPORT

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
MCP Volatile Organics by EPA 5035 High - Westborough Lab								
8260D	Batch QC	WG1886042-3	Chloromethane	LCS	67	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-3	1,1-Dichloroethene	LCS	68	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-3	Dichlorodifluoromethane	LCS	62	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-3	Acetone	LCS	64	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-3	Carbon disulfide	LCS	68	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-3	Tetrahydrofuran	LCS	65	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-4	Chloromethane	LCSD	67	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-4	1,1-Dichloroethene	LCSD	68	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-4	Dichlorodifluoromethane	LCSD	62	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-4	Acetone	LCSD	64	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-4	Carbon disulfide	LCSD	68	70-130	07,12	potential low bias
8260D	Batch QC	WG1886042-4	Tetrahydrofuran	LCSD	64	70-130	07,12	potential low bias
8260D	Batch QC	WG1887347-3	Chloromethane	LCS	68	70-130	06	potential low bias
8260D	Batch QC	WG1887347-3	Dichlorodifluoromethane	LCS	49	70-130	06	potential low bias
8260D	Batch QC	WG1887347-3	Acetone	LCS	68	70-130	06	potential low bias
8260D	Batch QC	WG1887347-3	Methyl ethyl ketone	LCS	62	70-130	06	potential low bias
8260D	Batch QC	WG1887347-3	Methyl isobutyl ketone	LCS	69	70-130	06	potential low bias
8260D	Batch QC	WG1887347-3	2-Hexanone	LCS	64	70-130	06	potential low bias
8260D	Batch QC	WG1887347-3	Tetrahydrofuran	LCS	58	70-130	06	potential low bias
8260D	Batch QC	WG1887347-4	Chloromethane	LCSD	64	70-130	06	potential low bias
8260D	Batch QC	WG1887347-4	Dichlorodifluoromethane	LCSD	46	70-130	06	potential low bias
8260D	Batch QC	WG1887347-4	Acetone	LCSD	67	70-130	06	potential low bias
8260D	Batch QC	WG1887347-4	Methyl ethyl ketone	LCSD	65	70-130	06	potential low bias
8260D	Batch QC	WG1887347-4	2-Hexanone	LCSD	65	70-130	06	potential low bias
8260D	Batch QC	WG1887347-4	Tetrahydrofuran	LCSD	63	70-130	06	potential low bias
8260D	Batch QC	WG1887734-3	Chloromethane	LCS	66	70-130	06	potential low bias
8260D	Batch QC	WG1887734-3	Dichlorodifluoromethane	LCS	41	70-130	06	potential low bias
8260D	Batch QC	WG1887734-3	Methyl ethyl ketone	LCS	68	70-130	06	potential low bias
8260D	Batch QC	WG1887734-3	2-Hexanone	LCS	69	70-130	06	potential low bias

QC OUTLIER SUMMARY REPORT

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment
8260D	Batch QC	WG1887734-3	Tetrahydrofuran	LCS	64	70-130	06	potential low bias
8260D	Batch QC	WG1887734-4	Chloromethane	LCSD	65	70-130	06	potential low bias
8260D	Batch QC	WG1887734-4	Dichlorodifluoromethane	LCSD	41	70-130	06	potential low bias
8260D	Batch QC	WG1887734-4	Acetone	LCSD	69	70-130	06	potential low bias
8260D	Batch QC	WG1887734-4	Tetrahydrofuran	LCSD	64	70-130	06	potential low bias
MCP Volatile Organics by EPA 5035 Low - Westborough Lab								
8260D	Batch QC	WG1886062-3	Chloromethane	LCS	67	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-3	1,1-Dichloroethene	LCS	68	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-3	Dichlorodifluoromethane	LCS	62	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-3	Acetone	LCS	64	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-3	Carbon disulfide	LCS	68	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-3	Tetrahydrofuran	LCS	65	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-4	Chloromethane	LCSD	67	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-4	1,1-Dichloroethene	LCSD	68	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-4	Dichlorodifluoromethane	LCSD	62	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-4	Acetone	LCSD	64	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-4	Carbon disulfide	LCSD	68	70-130	01-05,08-11,13	potential low bias
8260D	Batch QC	WG1886062-4	Tetrahydrofuran	LCSD	64	70-130	01-05,08-11,13	potential low bias

ORGANICS

VOLATILES

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-01
Client ID: 50TUFT-B101(0-1)
Sample Location: SOMERVILLE, MA

Date Collected: 02/12/24 08:30
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 15:23
Analyst: MAG
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.7	--	1
1,1-Dichloroethane	ND		ug/kg	0.74	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.74	--	1
1,2-Dichloropropane	ND		ug/kg	0.74	--	1
Dibromochloromethane	ND		ug/kg	0.74	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.74	--	1
Tetrachloroethene	2.3		ug/kg	0.37	--	1
Chlorobenzene	ND		ug/kg	0.37	--	1
Trichlorofluoromethane	ND		ug/kg	2.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.74	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.37	--	1
Bromodichloromethane	ND		ug/kg	0.37	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.74	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.37	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.37	--	1
1,1-Dichloropropene	ND		ug/kg	0.37	--	1
Bromoform	ND		ug/kg	2.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.37	--	1
Benzene	ND		ug/kg	0.37	--	1
Toluene	ND		ug/kg	0.74	--	1
Ethylbenzene	ND		ug/kg	0.74	--	1
Chloromethane	ND		ug/kg	2.9	--	1
Bromomethane	ND		ug/kg	1.5	--	1
Vinyl chloride	ND		ug/kg	0.74	--	1
Chloroethane	ND		ug/kg	1.5	--	1
1,1-Dichloroethene	ND		ug/kg	0.74	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-01
Client ID: 50TUFT-B101(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 08:30
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.37	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.5	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.5	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.5	--	1
Methyl tert butyl ether	ND		ug/kg	1.5	--	1
p/m-Xylene	ND		ug/kg	1.5	--	1
o-Xylene	ND		ug/kg	0.74	--	1
Xylenes, Total	ND		ug/kg	0.74	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.74	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.74	--	1
Dibromomethane	ND		ug/kg	1.5	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.5	--	1
Styrene	ND		ug/kg	0.74	--	1
Dichlorodifluoromethane	ND		ug/kg	7.4	--	1
Acetone	ND		ug/kg	18	--	1
Carbon disulfide	ND		ug/kg	7.4	--	1
Methyl ethyl ketone	ND		ug/kg	7.4	--	1
Methyl isobutyl ketone	ND		ug/kg	7.4	--	1
2-Hexanone	ND		ug/kg	7.4	--	1
Bromochloromethane	ND		ug/kg	1.5	--	1
Tetrahydrofuran	ND		ug/kg	2.9	--	1
2,2-Dichloropropane	ND		ug/kg	1.5	--	1
1,2-Dibromoethane	ND		ug/kg	0.74	--	1
1,3-Dichloropropane	ND		ug/kg	1.5	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.37	--	1
Bromobenzene	ND		ug/kg	1.5	--	1
n-Butylbenzene	ND		ug/kg	0.74	--	1
sec-Butylbenzene	ND		ug/kg	0.74	--	1
tert-Butylbenzene	ND		ug/kg	1.5	--	1
o-Chlorotoluene	ND		ug/kg	1.5	--	1
p-Chlorotoluene	ND		ug/kg	1.5	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.2	--	1
Hexachlorobutadiene	ND		ug/kg	2.9	--	1
Isopropylbenzene	ND		ug/kg	0.74	--	1
p-Isopropyltoluene	ND		ug/kg	0.74	--	1
Naphthalene	ND		ug/kg	2.9	--	1
n-Propylbenzene	ND		ug/kg	0.74	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-01
Client ID: 50TUFT-B101(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 08:30
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.5	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.5	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.5	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.5	--	1
Diethyl ether	ND		ug/kg	1.5	--	1
Diisopropyl Ether	ND		ug/kg	1.5	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.5	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.5	--	1
1,4-Dioxane	ND		ug/kg	59	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	95		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-02
Client ID: 50TUFT-B101(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 08:31
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 15:54
Analyst: MAG
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.3	--	1
1,1-Dichloroethane	ND		ug/kg	0.66	--	1
Chloroform	ND		ug/kg	0.99	--	1
Carbon tetrachloride	ND		ug/kg	0.66	--	1
1,2-Dichloropropane	ND		ug/kg	0.66	--	1
Dibromochloromethane	ND		ug/kg	0.66	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.66	--	1
Tetrachloroethene	ND		ug/kg	0.33	--	1
Chlorobenzene	ND		ug/kg	0.33	--	1
Trichlorofluoromethane	ND		ug/kg	2.6	--	1
1,2-Dichloroethane	ND		ug/kg	0.66	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.33	--	1
Bromodichloromethane	ND		ug/kg	0.33	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.66	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.33	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.33	--	1
1,1-Dichloropropene	ND		ug/kg	0.33	--	1
Bromoform	ND		ug/kg	2.6	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.33	--	1
Benzene	ND		ug/kg	0.33	--	1
Toluene	ND		ug/kg	0.66	--	1
Ethylbenzene	ND		ug/kg	0.66	--	1
Chloromethane	ND		ug/kg	2.6	--	1
Bromomethane	ND		ug/kg	1.3	--	1
Vinyl chloride	ND		ug/kg	0.66	--	1
Chloroethane	ND		ug/kg	1.3	--	1
1,1-Dichloroethene	ND		ug/kg	0.66	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.99	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-02
Client ID: 50TUFT-B101(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 08:31
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.33	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.3	--	1
Methyl tert butyl ether	ND		ug/kg	1.3	--	1
p/m-Xylene	ND		ug/kg	1.3	--	1
o-Xylene	ND		ug/kg	0.66	--	1
Xylenes, Total	ND		ug/kg	0.66	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.66	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.66	--	1
Dibromomethane	ND		ug/kg	1.3	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.3	--	1
Styrene	ND		ug/kg	0.66	--	1
Dichlorodifluoromethane	ND		ug/kg	6.6	--	1
Acetone	ND		ug/kg	16	--	1
Carbon disulfide	ND		ug/kg	6.6	--	1
Methyl ethyl ketone	ND		ug/kg	6.6	--	1
Methyl isobutyl ketone	ND		ug/kg	6.6	--	1
2-Hexanone	ND		ug/kg	6.6	--	1
Bromochloromethane	ND		ug/kg	1.3	--	1
Tetrahydrofuran	ND		ug/kg	2.6	--	1
2,2-Dichloropropane	ND		ug/kg	1.3	--	1
1,2-Dibromoethane	ND		ug/kg	0.66	--	1
1,3-Dichloropropane	ND		ug/kg	1.3	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.33	--	1
Bromobenzene	ND		ug/kg	1.3	--	1
n-Butylbenzene	ND		ug/kg	0.66	--	1
sec-Butylbenzene	ND		ug/kg	0.66	--	1
tert-Butylbenzene	ND		ug/kg	1.3	--	1
o-Chlorotoluene	ND		ug/kg	1.3	--	1
p-Chlorotoluene	ND		ug/kg	1.3	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.0	--	1
Hexachlorobutadiene	ND		ug/kg	2.6	--	1
Isopropylbenzene	ND		ug/kg	0.66	--	1
p-Isopropyltoluene	ND		ug/kg	0.66	--	1
Naphthalene	ND		ug/kg	2.6	--	1
n-Propylbenzene	ND		ug/kg	0.66	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-02
Client ID: 50TUFT-B101(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 08:31
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.3	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.3	--	1
Diethyl ether	ND		ug/kg	1.3	--	1
Diisopropyl Ether	ND		ug/kg	1.3	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.3	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.3	--	1
1,4-Dioxane	ND		ug/kg	53	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	94		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-03
Client ID: 50TUFT-B101(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 08:32
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 16:24
Analyst: MAG
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	2.6	--	1
1,1-Dichloroethane	ND		ug/kg	0.51	--	1
Chloroform	ND		ug/kg	0.77	--	1
Carbon tetrachloride	ND		ug/kg	0.51	--	1
1,2-Dichloropropane	ND		ug/kg	0.51	--	1
Dibromochloromethane	ND		ug/kg	0.51	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.51	--	1
Tetrachloroethene	15		ug/kg	0.26	--	1
Chlorobenzene	ND		ug/kg	0.26	--	1
Trichlorofluoromethane	ND		ug/kg	2.0	--	1
1,2-Dichloroethane	ND		ug/kg	0.51	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.26	--	1
Bromodichloromethane	ND		ug/kg	0.26	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.51	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.26	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.26	--	1
1,1-Dichloropropene	ND		ug/kg	0.26	--	1
Bromoform	ND		ug/kg	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.26	--	1
Benzene	ND		ug/kg	0.26	--	1
Toluene	ND		ug/kg	0.51	--	1
Ethylbenzene	ND		ug/kg	0.51	--	1
Chloromethane	ND		ug/kg	2.0	--	1
Bromomethane	ND		ug/kg	1.0	--	1
Vinyl chloride	ND		ug/kg	0.51	--	1
Chloroethane	ND		ug/kg	1.0	--	1
1,1-Dichloroethene	ND		ug/kg	0.51	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.77	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-03
Client ID: 50TUFT-B101(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 08:32
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.26	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.0	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.0	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.0	--	1
Methyl tert butyl ether	ND		ug/kg	1.0	--	1
p/m-Xylene	ND		ug/kg	1.0	--	1
o-Xylene	ND		ug/kg	0.51	--	1
Xylenes, Total	ND		ug/kg	0.51	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.51	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.51	--	1
Dibromomethane	ND		ug/kg	1.0	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.0	--	1
Styrene	ND		ug/kg	0.51	--	1
Dichlorodifluoromethane	ND		ug/kg	5.1	--	1
Acetone	ND		ug/kg	13	--	1
Carbon disulfide	ND		ug/kg	5.1	--	1
Methyl ethyl ketone	ND		ug/kg	5.1	--	1
Methyl isobutyl ketone	ND		ug/kg	5.1	--	1
2-Hexanone	ND		ug/kg	5.1	--	1
Bromochloromethane	ND		ug/kg	1.0	--	1
Tetrahydrofuran	ND		ug/kg	2.0	--	1
2,2-Dichloropropane	ND		ug/kg	1.0	--	1
1,2-Dibromoethane	ND		ug/kg	0.51	--	1
1,3-Dichloropropane	ND		ug/kg	1.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.26	--	1
Bromobenzene	ND		ug/kg	1.0	--	1
n-Butylbenzene	ND		ug/kg	0.51	--	1
sec-Butylbenzene	ND		ug/kg	0.51	--	1
tert-Butylbenzene	ND		ug/kg	1.0	--	1
o-Chlorotoluene	ND		ug/kg	1.0	--	1
p-Chlorotoluene	ND		ug/kg	1.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.5	--	1
Hexachlorobutadiene	ND		ug/kg	2.0	--	1
Isopropylbenzene	ND		ug/kg	0.51	--	1
p-Isopropyltoluene	ND		ug/kg	0.51	--	1
Naphthalene	ND		ug/kg	2.0	--	1
n-Propylbenzene	ND		ug/kg	0.51	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-03
Client ID: 50TUFT-B101(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 08:32
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.0	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.0	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.0	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.0	--	1
Diethyl ether	ND		ug/kg	1.0	--	1
Diisopropyl Ether	ND		ug/kg	1.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.0	--	1
1,4-Dioxane	ND		ug/kg	41	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	93		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-04
Client ID: 50TUFT-B102(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 16:54
Analyst: MAG
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.2	--	1
1,1-Dichloroethane	ND		ug/kg	0.64	--	1
Chloroform	ND		ug/kg	0.95	--	1
Carbon tetrachloride	ND		ug/kg	0.64	--	1
1,2-Dichloropropane	ND		ug/kg	0.64	--	1
Dibromochloromethane	ND		ug/kg	0.64	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.64	--	1
Tetrachloroethene	0.48		ug/kg	0.32	--	1
Chlorobenzene	ND		ug/kg	0.32	--	1
Trichlorofluoromethane	ND		ug/kg	2.5	--	1
1,2-Dichloroethane	ND		ug/kg	0.64	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.32	--	1
Bromodichloromethane	ND		ug/kg	0.32	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.64	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.32	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.32	--	1
1,1-Dichloropropene	ND		ug/kg	0.32	--	1
Bromoform	ND		ug/kg	2.5	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.32	--	1
Benzene	ND		ug/kg	0.32	--	1
Toluene	ND		ug/kg	0.64	--	1
Ethylbenzene	ND		ug/kg	0.64	--	1
Chloromethane	ND		ug/kg	2.5	--	1
Bromomethane	ND		ug/kg	1.3	--	1
Vinyl chloride	ND		ug/kg	0.64	--	1
Chloroethane	ND		ug/kg	1.3	--	1
1,1-Dichloroethene	ND		ug/kg	0.64	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.95	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-04
Client ID: 50TUFT-B102(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.32	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.3	--	1
Methyl tert butyl ether	ND		ug/kg	1.3	--	1
p/m-Xylene	ND		ug/kg	1.3	--	1
o-Xylene	ND		ug/kg	0.64	--	1
Xylenes, Total	ND		ug/kg	0.64	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.64	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.64	--	1
Dibromomethane	ND		ug/kg	1.3	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.3	--	1
Styrene	ND		ug/kg	0.64	--	1
Dichlorodifluoromethane	ND		ug/kg	6.4	--	1
Acetone	ND		ug/kg	16	--	1
Carbon disulfide	ND		ug/kg	6.4	--	1
Methyl ethyl ketone	ND		ug/kg	6.4	--	1
Methyl isobutyl ketone	ND		ug/kg	6.4	--	1
2-Hexanone	ND		ug/kg	6.4	--	1
Bromochloromethane	ND		ug/kg	1.3	--	1
Tetrahydrofuran	ND		ug/kg	2.5	--	1
2,2-Dichloropropane	ND		ug/kg	1.3	--	1
1,2-Dibromoethane	ND		ug/kg	0.64	--	1
1,3-Dichloropropane	ND		ug/kg	1.3	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.32	--	1
Bromobenzene	ND		ug/kg	1.3	--	1
n-Butylbenzene	ND		ug/kg	0.64	--	1
sec-Butylbenzene	ND		ug/kg	0.64	--	1
tert-Butylbenzene	ND		ug/kg	1.3	--	1
o-Chlorotoluene	ND		ug/kg	1.3	--	1
p-Chlorotoluene	ND		ug/kg	1.3	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.9	--	1
Hexachlorobutadiene	ND		ug/kg	2.5	--	1
Isopropylbenzene	ND		ug/kg	0.64	--	1
p-Isopropyltoluene	ND		ug/kg	0.64	--	1
Naphthalene	ND		ug/kg	2.5	--	1
n-Propylbenzene	ND		ug/kg	0.64	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-04
Client ID: 50TUFT-B102(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.3	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.3	--	1
Diethyl ether	ND		ug/kg	1.3	--	1
Diisopropyl Ether	ND		ug/kg	1.3	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.3	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.3	--	1
1,4-Dioxane	ND		ug/kg	51	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	93		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-05
Client ID: 50TUFT-B102(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 17:25
Analyst: MAG
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	2.9	--	1
1,1-Dichloroethane	ND		ug/kg	0.58	--	1
Chloroform	ND		ug/kg	0.88	--	1
Carbon tetrachloride	ND		ug/kg	0.58	--	1
1,2-Dichloropropane	ND		ug/kg	0.58	--	1
Dibromochloromethane	ND		ug/kg	0.58	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.58	--	1
Tetrachloroethene	1.0		ug/kg	0.29	--	1
Chlorobenzene	ND		ug/kg	0.29	--	1
Trichlorofluoromethane	ND		ug/kg	2.3	--	1
1,2-Dichloroethane	ND		ug/kg	0.58	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.29	--	1
Bromodichloromethane	ND		ug/kg	0.29	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.58	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.29	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.29	--	1
1,1-Dichloropropene	ND		ug/kg	0.29	--	1
Bromoform	ND		ug/kg	2.3	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.29	--	1
Benzene	ND		ug/kg	0.29	--	1
Toluene	ND		ug/kg	0.58	--	1
Ethylbenzene	ND		ug/kg	0.58	--	1
Chloromethane	ND		ug/kg	2.3	--	1
Bromomethane	ND		ug/kg	1.2	--	1
Vinyl chloride	ND		ug/kg	0.58	--	1
Chloroethane	ND		ug/kg	1.2	--	1
1,1-Dichloroethene	ND		ug/kg	0.58	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.88	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-05
Client ID: 50TUFT-B102(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	0.37		ug/kg	0.29	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.2	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.2	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.2	--	1
Methyl tert butyl ether	ND		ug/kg	1.2	--	1
p/m-Xylene	ND		ug/kg	1.2	--	1
o-Xylene	ND		ug/kg	0.58	--	1
Xylenes, Total	ND		ug/kg	0.58	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.58	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.58	--	1
Dibromomethane	ND		ug/kg	1.2	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.2	--	1
Styrene	ND		ug/kg	0.58	--	1
Dichlorodifluoromethane	ND		ug/kg	5.8	--	1
Acetone	ND		ug/kg	14	--	1
Carbon disulfide	ND		ug/kg	5.8	--	1
Methyl ethyl ketone	ND		ug/kg	5.8	--	1
Methyl isobutyl ketone	ND		ug/kg	5.8	--	1
2-Hexanone	ND		ug/kg	5.8	--	1
Bromochloromethane	ND		ug/kg	1.2	--	1
Tetrahydrofuran	ND		ug/kg	2.3	--	1
2,2-Dichloropropane	ND		ug/kg	1.2	--	1
1,2-Dibromoethane	ND		ug/kg	0.58	--	1
1,3-Dichloropropane	ND		ug/kg	1.2	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.29	--	1
Bromobenzene	ND		ug/kg	1.2	--	1
n-Butylbenzene	ND		ug/kg	0.58	--	1
sec-Butylbenzene	ND		ug/kg	0.58	--	1
tert-Butylbenzene	ND		ug/kg	1.2	--	1
o-Chlorotoluene	ND		ug/kg	1.2	--	1
p-Chlorotoluene	ND		ug/kg	1.2	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.8	--	1
Hexachlorobutadiene	ND		ug/kg	2.3	--	1
Isopropylbenzene	ND		ug/kg	0.58	--	1
p-Isopropyltoluene	ND		ug/kg	0.58	--	1
Naphthalene	ND		ug/kg	2.3	--	1
n-Propylbenzene	ND		ug/kg	0.58	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-05
Client ID: 50TUFT-B102(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.2	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.2	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.2	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.2	--	1
Diethyl ether	ND		ug/kg	1.2	--	1
Diisopropyl Ether	ND		ug/kg	1.2	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.2	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.2	--	1
1,4-Dioxane	ND		ug/kg	47	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	93		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-06
Client ID: 50TUFT-B103(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:30
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/20/24 14:19
Analyst: MAG
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	230	--	1
1,1-Dichloroethane	ND		ug/kg	46	--	1
Chloroform	ND		ug/kg	68	--	1
Carbon tetrachloride	ND		ug/kg	46	--	1
1,2-Dichloropropane	ND		ug/kg	46	--	1
Dibromochloromethane	ND		ug/kg	46	--	1
1,1,2-Trichloroethane	ND		ug/kg	46	--	1
Tetrachloroethene	92000	E	ug/kg	23	--	1
Chlorobenzene	ND		ug/kg	23	--	1
Trichlorofluoromethane	ND		ug/kg	180	--	1
1,2-Dichloroethane	ND		ug/kg	46	--	1
1,1,1-Trichloroethane	ND		ug/kg	23	--	1
Bromodichloromethane	ND		ug/kg	23	--	1
trans-1,3-Dichloropropene	ND		ug/kg	46	--	1
cis-1,3-Dichloropropene	ND		ug/kg	23	--	1
1,3-Dichloropropene, Total	ND		ug/kg	23	--	1
1,1-Dichloropropene	ND		ug/kg	23	--	1
Bromoform	ND		ug/kg	180	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	23	--	1
Benzene	ND		ug/kg	23	--	1
Toluene	ND		ug/kg	46	--	1
Ethylbenzene	ND		ug/kg	46	--	1
Chloromethane	ND		ug/kg	180	--	1
Bromomethane	ND		ug/kg	91	--	1
Vinyl chloride	ND		ug/kg	46	--	1
Chloroethane	ND		ug/kg	91	--	1
1,1-Dichloroethene	ND		ug/kg	46	--	1
trans-1,2-Dichloroethene	ND		ug/kg	68	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-06
Client ID: 50TUFT-B103(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:30
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	240		ug/kg	23	--	1
1,2-Dichlorobenzene	ND		ug/kg	91	--	1
1,3-Dichlorobenzene	ND		ug/kg	91	--	1
1,4-Dichlorobenzene	ND		ug/kg	91	--	1
Methyl tert butyl ether	ND		ug/kg	91	--	1
p/m-Xylene	ND		ug/kg	91	--	1
o-Xylene	ND		ug/kg	46	--	1
Xylenes, Total	ND		ug/kg	46	--	1
cis-1,2-Dichloroethene	94		ug/kg	46	--	1
1,2-Dichloroethene, Total	94		ug/kg	46	--	1
Dibromomethane	ND		ug/kg	91	--	1
1,2,3-Trichloropropane	ND		ug/kg	91	--	1
Styrene	ND		ug/kg	46	--	1
Dichlorodifluoromethane	ND		ug/kg	460	--	1
Acetone	ND		ug/kg	460	--	1
Carbon disulfide	ND		ug/kg	460	--	1
Methyl ethyl ketone	ND		ug/kg	460	--	1
Methyl isobutyl ketone	ND		ug/kg	460	--	1
2-Hexanone	ND		ug/kg	460	--	1
Bromochloromethane	ND		ug/kg	91	--	1
Tetrahydrofuran	ND		ug/kg	180	--	1
2,2-Dichloropropane	ND		ug/kg	91	--	1
1,2-Dibromoethane	ND		ug/kg	46	--	1
1,3-Dichloropropane	ND		ug/kg	91	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	23	--	1
Bromobenzene	ND		ug/kg	91	--	1
n-Butylbenzene	ND		ug/kg	46	--	1
sec-Butylbenzene	ND		ug/kg	46	--	1
tert-Butylbenzene	ND		ug/kg	91	--	1
o-Chlorotoluene	ND		ug/kg	91	--	1
p-Chlorotoluene	ND		ug/kg	91	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	140	--	1
Hexachlorobutadiene	ND		ug/kg	180	--	1
Isopropylbenzene	ND		ug/kg	46	--	1
p-Isopropyltoluene	ND		ug/kg	46	--	1
Naphthalene	ND		ug/kg	180	--	1
n-Propylbenzene	ND		ug/kg	46	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-06
Client ID: 50TUFT-B103(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:30
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	91	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	91	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	91	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	91	--	1
Diethyl ether	ND		ug/kg	91	--	1
Diisopropyl Ether	ND		ug/kg	91	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	91	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	91	--	1
1,4-Dioxane	ND		ug/kg	3600	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	91		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-06 D
Client ID: 50TUFT-B103(0-1)
Sample Location: SOMERVILLE, MA

Date Collected: 02/12/24 09:30
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/21/24 12:25
Analyst: AJK
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Tetrachloroethene	100000		ug/kg	230	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	95		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-07
Client ID: 50TUFT-B103(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:31
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 20:26
Analyst: MAG
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	310	--	1
1,1-Dichloroethane	ND		ug/kg	61	--	1
Chloroform	ND		ug/kg	92	--	1
Carbon tetrachloride	ND		ug/kg	61	--	1
1,2-Dichloropropane	ND		ug/kg	61	--	1
Dibromochloromethane	ND		ug/kg	61	--	1
1,1,2-Trichloroethane	ND		ug/kg	61	--	1
Tetrachloroethene	2800		ug/kg	31	--	1
Chlorobenzene	ND		ug/kg	31	--	1
Trichlorofluoromethane	ND		ug/kg	240	--	1
1,2-Dichloroethane	ND		ug/kg	61	--	1
1,1,1-Trichloroethane	ND		ug/kg	31	--	1
Bromodichloromethane	ND		ug/kg	31	--	1
trans-1,3-Dichloropropene	ND		ug/kg	61	--	1
cis-1,3-Dichloropropene	ND		ug/kg	31	--	1
1,3-Dichloropropene, Total	ND		ug/kg	31	--	1
1,1-Dichloropropene	ND		ug/kg	31	--	1
Bromoform	ND		ug/kg	240	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	31	--	1
Benzene	ND		ug/kg	31	--	1
Toluene	ND		ug/kg	61	--	1
Ethylbenzene	ND		ug/kg	61	--	1
Chloromethane	ND		ug/kg	240	--	1
Bromomethane	ND		ug/kg	120	--	1
Vinyl chloride	ND		ug/kg	61	--	1
Chloroethane	ND		ug/kg	120	--	1
1,1-Dichloroethene	ND		ug/kg	61	--	1
trans-1,2-Dichloroethene	ND		ug/kg	92	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-07
Client ID: 50TUFT-B103(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:31
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	31	--	1
1,2-Dichlorobenzene	ND		ug/kg	120	--	1
1,3-Dichlorobenzene	ND		ug/kg	120	--	1
1,4-Dichlorobenzene	ND		ug/kg	120	--	1
Methyl tert butyl ether	ND		ug/kg	120	--	1
p/m-Xylene	ND		ug/kg	120	--	1
o-Xylene	ND		ug/kg	61	--	1
Xylenes, Total	ND		ug/kg	61	--	1
cis-1,2-Dichloroethene	ND		ug/kg	61	--	1
1,2-Dichloroethene, Total	ND		ug/kg	61	--	1
Dibromomethane	ND		ug/kg	120	--	1
1,2,3-Trichloropropane	ND		ug/kg	120	--	1
Styrene	ND		ug/kg	61	--	1
Dichlorodifluoromethane	ND		ug/kg	610	--	1
Acetone	ND		ug/kg	610	--	1
Carbon disulfide	ND		ug/kg	610	--	1
Methyl ethyl ketone	ND		ug/kg	610	--	1
Methyl isobutyl ketone	ND		ug/kg	610	--	1
2-Hexanone	ND		ug/kg	610	--	1
Bromochloromethane	ND		ug/kg	120	--	1
Tetrahydrofuran	ND		ug/kg	240	--	1
2,2-Dichloropropane	ND		ug/kg	120	--	1
1,2-Dibromoethane	ND		ug/kg	61	--	1
1,3-Dichloropropane	ND		ug/kg	120	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	31	--	1
Bromobenzene	ND		ug/kg	120	--	1
n-Butylbenzene	ND		ug/kg	61	--	1
sec-Butylbenzene	ND		ug/kg	61	--	1
tert-Butylbenzene	ND		ug/kg	120	--	1
o-Chlorotoluene	ND		ug/kg	120	--	1
p-Chlorotoluene	ND		ug/kg	120	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	180	--	1
Hexachlorobutadiene	ND		ug/kg	240	--	1
Isopropylbenzene	ND		ug/kg	61	--	1
p-Isopropyltoluene	ND		ug/kg	61	--	1
Naphthalene	ND		ug/kg	240	--	1
n-Propylbenzene	ND		ug/kg	61	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-07
Client ID: 50TUFT-B103(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:31
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	120	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	120	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	120	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	120	--	1
Diethyl ether	ND		ug/kg	120	--	1
Diisopropyl Ether	ND		ug/kg	120	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	120	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	120	--	1
1,4-Dioxane	ND		ug/kg	4900	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	94		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-08
Client ID: 50TUFT-B103(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:32
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 17:55
Analyst: MAG
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.2	--	1
1,1-Dichloroethane	ND		ug/kg	0.63	--	1
Chloroform	ND		ug/kg	0.95	--	1
Carbon tetrachloride	ND		ug/kg	0.63	--	1
1,2-Dichloropropane	ND		ug/kg	0.63	--	1
Dibromochloromethane	ND		ug/kg	0.63	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.63	--	1
Tetrachloroethene	0.52		ug/kg	0.32	--	1
Chlorobenzene	ND		ug/kg	0.32	--	1
Trichlorofluoromethane	ND		ug/kg	2.5	--	1
1,2-Dichloroethane	ND		ug/kg	0.63	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.32	--	1
Bromodichloromethane	ND		ug/kg	0.32	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.63	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.32	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.32	--	1
1,1-Dichloropropene	ND		ug/kg	0.32	--	1
Bromoform	ND		ug/kg	2.5	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.32	--	1
Benzene	ND		ug/kg	0.32	--	1
Toluene	ND		ug/kg	0.63	--	1
Ethylbenzene	ND		ug/kg	0.63	--	1
Chloromethane	ND		ug/kg	2.5	--	1
Bromomethane	ND		ug/kg	1.3	--	1
Vinyl chloride	ND		ug/kg	0.63	--	1
Chloroethane	ND		ug/kg	1.3	--	1
1,1-Dichloroethene	ND		ug/kg	0.63	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.95	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-08
Client ID: 50TUFT-B103(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:32
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.32	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.3	--	1
Methyl tert butyl ether	ND		ug/kg	1.3	--	1
p/m-Xylene	ND		ug/kg	1.3	--	1
o-Xylene	ND		ug/kg	0.63	--	1
Xylenes, Total	ND		ug/kg	0.63	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.63	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.63	--	1
Dibromomethane	ND		ug/kg	1.3	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.3	--	1
Styrene	ND		ug/kg	0.63	--	1
Dichlorodifluoromethane	ND		ug/kg	6.3	--	1
Acetone	ND		ug/kg	16	--	1
Carbon disulfide	ND		ug/kg	6.3	--	1
Methyl ethyl ketone	ND		ug/kg	6.3	--	1
Methyl isobutyl ketone	ND		ug/kg	6.3	--	1
2-Hexanone	ND		ug/kg	6.3	--	1
Bromochloromethane	ND		ug/kg	1.3	--	1
Tetrahydrofuran	ND		ug/kg	2.5	--	1
2,2-Dichloropropane	ND		ug/kg	1.3	--	1
1,2-Dibromoethane	ND		ug/kg	0.63	--	1
1,3-Dichloropropane	ND		ug/kg	1.3	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.32	--	1
Bromobenzene	ND		ug/kg	1.3	--	1
n-Butylbenzene	ND		ug/kg	0.63	--	1
sec-Butylbenzene	ND		ug/kg	0.63	--	1
tert-Butylbenzene	ND		ug/kg	1.3	--	1
o-Chlorotoluene	ND		ug/kg	1.3	--	1
p-Chlorotoluene	ND		ug/kg	1.3	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.9	--	1
Hexachlorobutadiene	ND		ug/kg	2.5	--	1
Isopropylbenzene	ND		ug/kg	0.63	--	1
p-Isopropyltoluene	ND		ug/kg	0.63	--	1
Naphthalene	ND		ug/kg	2.5	--	1
n-Propylbenzene	ND		ug/kg	0.63	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-08
Client ID: 50TUFT-B103(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 09:32
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.3	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.3	--	1
Diethyl ether	ND		ug/kg	1.3	--	1
Diisopropyl Ether	ND		ug/kg	1.3	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.3	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.3	--	1
1,4-Dioxane	ND		ug/kg	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	95		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-09
Client ID: 50TUFT-B104(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 10:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 18:25
Analyst: MAG
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	2.9	--	1
1,1-Dichloroethane	ND		ug/kg	0.57	--	1
Chloroform	ND		ug/kg	0.86	--	1
Carbon tetrachloride	ND		ug/kg	0.57	--	1
1,2-Dichloropropane	ND		ug/kg	0.57	--	1
Dibromochloromethane	ND		ug/kg	0.57	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.57	--	1
Tetrachloroethene	23		ug/kg	0.29	--	1
Chlorobenzene	ND		ug/kg	0.29	--	1
Trichlorofluoromethane	ND		ug/kg	2.3	--	1
1,2-Dichloroethane	ND		ug/kg	0.57	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.29	--	1
Bromodichloromethane	ND		ug/kg	0.29	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.57	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.29	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.29	--	1
1,1-Dichloropropene	ND		ug/kg	0.29	--	1
Bromoform	ND		ug/kg	2.3	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.29	--	1
Benzene	ND		ug/kg	0.29	--	1
Toluene	ND		ug/kg	0.57	--	1
Ethylbenzene	ND		ug/kg	0.57	--	1
Chloromethane	ND		ug/kg	2.3	--	1
Bromomethane	ND		ug/kg	1.1	--	1
Vinyl chloride	ND		ug/kg	0.57	--	1
Chloroethane	ND		ug/kg	1.1	--	1
1,1-Dichloroethene	ND		ug/kg	0.57	--	1
trans-1,2-Dichloroethene	ND		ug/kg	0.86	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-09
Client ID: 50TUFT-B104(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 10:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.29	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.1	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.1	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.1	--	1
Methyl tert butyl ether	ND		ug/kg	1.1	--	1
p/m-Xylene	ND		ug/kg	1.1	--	1
o-Xylene	ND		ug/kg	0.57	--	1
Xylenes, Total	ND		ug/kg	0.57	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.57	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.57	--	1
Dibromomethane	ND		ug/kg	1.1	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.1	--	1
Styrene	ND		ug/kg	0.57	--	1
Dichlorodifluoromethane	ND		ug/kg	5.7	--	1
Acetone	ND		ug/kg	14	--	1
Carbon disulfide	ND		ug/kg	5.7	--	1
Methyl ethyl ketone	ND		ug/kg	5.7	--	1
Methyl isobutyl ketone	ND		ug/kg	5.7	--	1
2-Hexanone	ND		ug/kg	5.7	--	1
Bromochloromethane	ND		ug/kg	1.1	--	1
Tetrahydrofuran	ND		ug/kg	2.3	--	1
2,2-Dichloropropane	ND		ug/kg	1.1	--	1
1,2-Dibromoethane	ND		ug/kg	0.57	--	1
1,3-Dichloropropane	ND		ug/kg	1.1	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.29	--	1
Bromobenzene	ND		ug/kg	1.1	--	1
n-Butylbenzene	ND		ug/kg	0.57	--	1
sec-Butylbenzene	ND		ug/kg	0.57	--	1
tert-Butylbenzene	ND		ug/kg	1.1	--	1
o-Chlorotoluene	ND		ug/kg	1.1	--	1
p-Chlorotoluene	ND		ug/kg	1.1	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	1.7	--	1
Hexachlorobutadiene	ND		ug/kg	2.3	--	1
Isopropylbenzene	ND		ug/kg	0.57	--	1
p-Isopropyltoluene	ND		ug/kg	0.57	--	1
Naphthalene	ND		ug/kg	2.3	--	1
n-Propylbenzene	ND		ug/kg	0.57	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-09
Client ID: 50TUFT-B104(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 10:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.1	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.1	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.1	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.1	--	1
Diethyl ether	ND		ug/kg	1.1	--	1
Diisopropyl Ether	ND		ug/kg	1.1	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.1	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.1	--	1
1,4-Dioxane	ND		ug/kg	46	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-10
Client ID: 50TUFT-B104(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 10:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 18:56
Analyst: MAG
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.3	--	1
1,1-Dichloroethane	ND		ug/kg	0.67	--	1
Chloroform	ND		ug/kg	1.0	--	1
Carbon tetrachloride	ND		ug/kg	0.67	--	1
1,2-Dichloropropane	ND		ug/kg	0.67	--	1
Dibromochloromethane	ND		ug/kg	0.67	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.67	--	1
Tetrachloroethene	15		ug/kg	0.33	--	1
Chlorobenzene	ND		ug/kg	0.33	--	1
Trichlorofluoromethane	ND		ug/kg	2.7	--	1
1,2-Dichloroethane	ND		ug/kg	0.67	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.33	--	1
Bromodichloromethane	ND		ug/kg	0.33	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.67	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.33	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.33	--	1
1,1-Dichloropropene	ND		ug/kg	0.33	--	1
Bromoform	ND		ug/kg	2.7	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.33	--	1
Benzene	ND		ug/kg	0.33	--	1
Toluene	ND		ug/kg	0.67	--	1
Ethylbenzene	ND		ug/kg	0.67	--	1
Chloromethane	ND		ug/kg	2.7	--	1
Bromomethane	ND		ug/kg	1.3	--	1
Vinyl chloride	ND		ug/kg	0.67	--	1
Chloroethane	ND		ug/kg	1.3	--	1
1,1-Dichloroethene	ND		ug/kg	0.67	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.0	--	1

Project Name: TUFTS STREET **Lab Number:** L2408101

Project Number: 045163 **Report Date:** 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-10 Date Collected: 02/12/24 10:01

Client ID: 50TUFT-B104(1-3) Date Received: 02/14/24

Sample Location: SOMERVILLE, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.33	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.3	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.3	--	1
Methyl tert butyl ether	ND		ug/kg	1.3	--	1
p/m-Xylene	ND		ug/kg	1.3	--	1
o-Xylene	ND		ug/kg	0.67	--	1
Xylenes, Total	ND		ug/kg	0.67	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.67	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.67	--	1
Dibromomethane	ND		ug/kg	1.3	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.3	--	1
Styrene	ND		ug/kg	0.67	--	1
Dichlorodifluoromethane	ND		ug/kg	6.7	--	1
Acetone	ND		ug/kg	17	--	1
Carbon disulfide	ND		ug/kg	6.7	--	1
Methyl ethyl ketone	ND		ug/kg	6.7	--	1
Methyl isobutyl ketone	ND		ug/kg	6.7	--	1
2-Hexanone	ND		ug/kg	6.7	--	1
Bromochloromethane	ND		ug/kg	1.3	--	1
Tetrahydrofuran	ND		ug/kg	2.7	--	1
2,2-Dichloropropane	ND		ug/kg	1.3	--	1
1,2-Dibromoethane	ND		ug/kg	0.67	--	1
1,3-Dichloropropane	ND		ug/kg	1.3	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.33	--	1
Bromobenzene	ND		ug/kg	1.3	--	1
n-Butylbenzene	ND		ug/kg	0.67	--	1
sec-Butylbenzene	ND		ug/kg	0.67	--	1
tert-Butylbenzene	ND		ug/kg	1.3	--	1
o-Chlorotoluene	ND		ug/kg	1.3	--	1
p-Chlorotoluene	ND		ug/kg	1.3	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.0	--	1
Hexachlorobutadiene	ND		ug/kg	2.7	--	1
Isopropylbenzene	ND		ug/kg	0.67	--	1
p-Isopropyltoluene	ND		ug/kg	0.67	--	1
Naphthalene	ND		ug/kg	2.7	--	1
n-Propylbenzene	ND		ug/kg	0.67	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-10
Client ID: 50TUFT-B104(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 10:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.3	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.3	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.3	--	1
Diethyl ether	ND		ug/kg	1.3	--	1
Diisopropyl Ether	ND		ug/kg	1.3	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.3	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.3	--	1
1,4-Dioxane	ND		ug/kg	53	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	97		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-11
Client ID: 50TUFT-B104(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 10:02
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 19:26
Analyst: MAG
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.4	--	1
1,1-Dichloroethane	ND		ug/kg	0.88	--	1
Chloroform	ND		ug/kg	1.3	--	1
Carbon tetrachloride	ND		ug/kg	0.88	--	1
1,2-Dichloropropane	ND		ug/kg	0.88	--	1
Dibromochloromethane	ND		ug/kg	0.88	--	1
1,1,2-Trichloroethane	ND		ug/kg	0.88	--	1
Tetrachloroethene	2.4		ug/kg	0.44	--	1
Chlorobenzene	ND		ug/kg	0.44	--	1
Trichlorofluoromethane	ND		ug/kg	3.5	--	1
1,2-Dichloroethane	ND		ug/kg	0.88	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.44	--	1
Bromodichloromethane	ND		ug/kg	0.44	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.88	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.44	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.44	--	1
1,1-Dichloropropene	ND		ug/kg	0.44	--	1
Bromoform	ND		ug/kg	3.5	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.44	--	1
Benzene	ND		ug/kg	0.44	--	1
Toluene	ND		ug/kg	0.88	--	1
Ethylbenzene	ND		ug/kg	0.88	--	1
Chloromethane	ND		ug/kg	3.5	--	1
Bromomethane	ND		ug/kg	1.8	--	1
Vinyl chloride	ND		ug/kg	0.88	--	1
Chloroethane	ND		ug/kg	1.8	--	1
1,1-Dichloroethene	ND		ug/kg	0.88	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-11
Client ID: 50TUFT-B104(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 10:02
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.44	--	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	--	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	--	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	--	1
Methyl tert butyl ether	ND		ug/kg	1.8	--	1
p/m-Xylene	ND		ug/kg	1.8	--	1
o-Xylene	ND		ug/kg	0.88	--	1
Xylenes, Total	ND		ug/kg	0.88	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.88	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.88	--	1
Dibromomethane	ND		ug/kg	1.8	--	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	--	1
Styrene	ND		ug/kg	0.88	--	1
Dichlorodifluoromethane	ND		ug/kg	8.8	--	1
Acetone	ND		ug/kg	22	--	1
Carbon disulfide	ND		ug/kg	8.8	--	1
Methyl ethyl ketone	ND		ug/kg	8.8	--	1
Methyl isobutyl ketone	ND		ug/kg	8.8	--	1
2-Hexanone	ND		ug/kg	8.8	--	1
Bromochloromethane	ND		ug/kg	1.8	--	1
Tetrahydrofuran	ND		ug/kg	3.5	--	1
2,2-Dichloropropane	ND		ug/kg	1.8	--	1
1,2-Dibromoethane	ND		ug/kg	0.88	--	1
1,3-Dichloropropane	ND		ug/kg	1.8	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.44	--	1
Bromobenzene	ND		ug/kg	1.8	--	1
n-Butylbenzene	ND		ug/kg	0.88	--	1
sec-Butylbenzene	ND		ug/kg	0.88	--	1
tert-Butylbenzene	ND		ug/kg	1.8	--	1
o-Chlorotoluene	ND		ug/kg	1.8	--	1
p-Chlorotoluene	ND		ug/kg	1.8	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	--	1
Hexachlorobutadiene	ND		ug/kg	3.5	--	1
Isopropylbenzene	ND		ug/kg	0.88	--	1
p-Isopropyltoluene	ND		ug/kg	0.88	--	1
Naphthalene	ND		ug/kg	3.5	--	1
n-Propylbenzene	ND		ug/kg	0.88	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-11
Client ID: 50TUFT-B104(3-5)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 10:02
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	--	1
Diethyl ether	ND		ug/kg	1.8	--	1
Diisopropyl Ether	ND		ug/kg	1.8	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.8	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.8	--	1
1,4-Dioxane	ND		ug/kg	70	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	95		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-12
Client ID: 50TUFT-B105(0-1)
Sample Location: SOMERVILLE, MA

Date Collected: 02/12/24 11:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 20:57
Analyst: MAG
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	220	--	1
1,1-Dichloroethane	ND		ug/kg	44	--	1
Chloroform	ND		ug/kg	67	--	1
Carbon tetrachloride	ND		ug/kg	44	--	1
1,2-Dichloropropane	ND		ug/kg	44	--	1
Dibromochloromethane	ND		ug/kg	44	--	1
1,1,2-Trichloroethane	ND		ug/kg	44	--	1
Tetrachloroethene	810		ug/kg	22	--	1
Chlorobenzene	ND		ug/kg	22	--	1
Trichlorofluoromethane	ND		ug/kg	180	--	1
1,2-Dichloroethane	ND		ug/kg	44	--	1
1,1,1-Trichloroethane	ND		ug/kg	22	--	1
Bromodichloromethane	ND		ug/kg	22	--	1
trans-1,3-Dichloropropene	ND		ug/kg	44	--	1
cis-1,3-Dichloropropene	ND		ug/kg	22	--	1
1,3-Dichloropropene, Total	ND		ug/kg	22	--	1
1,1-Dichloropropene	ND		ug/kg	22	--	1
Bromoform	ND		ug/kg	180	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	22	--	1
Benzene	ND		ug/kg	22	--	1
Toluene	53		ug/kg	44	--	1
Ethylbenzene	ND		ug/kg	44	--	1
Chloromethane	ND		ug/kg	180	--	1
Bromomethane	ND		ug/kg	89	--	1
Vinyl chloride	ND		ug/kg	44	--	1
Chloroethane	ND		ug/kg	89	--	1
1,1-Dichloroethene	ND		ug/kg	44	--	1
trans-1,2-Dichloroethene	ND		ug/kg	67	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-12
Client ID: 50TUFT-B105(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 11:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	22	--	1
1,2-Dichlorobenzene	ND		ug/kg	89	--	1
1,3-Dichlorobenzene	ND		ug/kg	89	--	1
1,4-Dichlorobenzene	ND		ug/kg	89	--	1
Methyl tert butyl ether	ND		ug/kg	89	--	1
p/m-Xylene	ND		ug/kg	89	--	1
o-Xylene	ND		ug/kg	44	--	1
Xylenes, Total	ND		ug/kg	44	--	1
cis-1,2-Dichloroethene	ND		ug/kg	44	--	1
1,2-Dichloroethene, Total	ND		ug/kg	44	--	1
Dibromomethane	ND		ug/kg	89	--	1
1,2,3-Trichloropropane	ND		ug/kg	89	--	1
Styrene	ND		ug/kg	44	--	1
Dichlorodifluoromethane	ND		ug/kg	440	--	1
Acetone	ND		ug/kg	440	--	1
Carbon disulfide	ND		ug/kg	440	--	1
Methyl ethyl ketone	ND		ug/kg	440	--	1
Methyl isobutyl ketone	ND		ug/kg	440	--	1
2-Hexanone	ND		ug/kg	440	--	1
Bromochloromethane	ND		ug/kg	89	--	1
Tetrahydrofuran	ND		ug/kg	180	--	1
2,2-Dichloropropane	ND		ug/kg	89	--	1
1,2-Dibromoethane	ND		ug/kg	44	--	1
1,3-Dichloropropane	ND		ug/kg	89	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	22	--	1
Bromobenzene	ND		ug/kg	89	--	1
n-Butylbenzene	ND		ug/kg	44	--	1
sec-Butylbenzene	ND		ug/kg	44	--	1
tert-Butylbenzene	ND		ug/kg	89	--	1
o-Chlorotoluene	ND		ug/kg	89	--	1
p-Chlorotoluene	ND		ug/kg	89	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	130	--	1
Hexachlorobutadiene	ND		ug/kg	180	--	1
Isopropylbenzene	ND		ug/kg	44	--	1
p-Isopropyltoluene	ND		ug/kg	44	--	1
Naphthalene	ND		ug/kg	180	--	1
n-Propylbenzene	ND		ug/kg	44	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-12
Client ID: 50TUFT-B105(0-1)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 11:00
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	89	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	89	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	89	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	89	--	1
Diethyl ether	ND		ug/kg	89	--	1
Diisopropyl Ether	ND		ug/kg	89	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	89	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	89	--	1
1,4-Dioxane	ND		ug/kg	3600	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	94		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-13
Client ID: 50TUFT-B105(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 11:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 141,8260D
Analytical Date: 02/15/24 19:56
Analyst: MAG
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.1	--	1
1,1-Dichloroethane	ND		ug/kg	1.2	--	1
Chloroform	ND		ug/kg	1.8	--	1
Carbon tetrachloride	ND		ug/kg	1.2	--	1
1,2-Dichloropropane	ND		ug/kg	1.2	--	1
Dibromochloromethane	ND		ug/kg	1.2	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	--	1
Tetrachloroethene	10		ug/kg	0.61	--	1
Chlorobenzene	ND		ug/kg	0.61	--	1
Trichlorofluoromethane	ND		ug/kg	4.8	--	1
1,2-Dichloroethane	ND		ug/kg	1.2	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	--	1
Bromodichloromethane	ND		ug/kg	0.61	--	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.61	--	1
1,1-Dichloropropene	ND		ug/kg	0.61	--	1
Bromoform	ND		ug/kg	4.8	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	--	1
Benzene	ND		ug/kg	0.61	--	1
Toluene	ND		ug/kg	1.2	--	1
Ethylbenzene	ND		ug/kg	1.2	--	1
Chloromethane	ND		ug/kg	4.8	--	1
Bromomethane	ND		ug/kg	2.4	--	1
Vinyl chloride	ND		ug/kg	1.2	--	1
Chloroethane	ND		ug/kg	2.4	--	1
1,1-Dichloroethene	ND		ug/kg	1.2	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-13
Client ID: 50TUFT-B105(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 11:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.61	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	--	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	--	1
Methyl tert butyl ether	ND		ug/kg	2.4	--	1
p/m-Xylene	ND		ug/kg	2.4	--	1
o-Xylene	ND		ug/kg	1.2	--	1
Xylenes, Total	ND		ug/kg	1.2	--	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	--	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	--	1
Dibromomethane	ND		ug/kg	2.4	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	--	1
Styrene	ND		ug/kg	1.2	--	1
Dichlorodifluoromethane	ND		ug/kg	12	--	1
Acetone	ND		ug/kg	30	--	1
Carbon disulfide	ND		ug/kg	12	--	1
Methyl ethyl ketone	ND		ug/kg	12	--	1
Methyl isobutyl ketone	ND		ug/kg	12	--	1
2-Hexanone	ND		ug/kg	12	--	1
Bromochloromethane	ND		ug/kg	2.4	--	1
Tetrahydrofuran	ND		ug/kg	4.8	--	1
2,2-Dichloropropane	ND		ug/kg	2.4	--	1
1,2-Dibromoethane	ND		ug/kg	1.2	--	1
1,3-Dichloropropane	ND		ug/kg	2.4	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.61	--	1
Bromobenzene	ND		ug/kg	2.4	--	1
n-Butylbenzene	ND		ug/kg	1.2	--	1
sec-Butylbenzene	ND		ug/kg	1.2	--	1
tert-Butylbenzene	ND		ug/kg	2.4	--	1
o-Chlorotoluene	ND		ug/kg	2.4	--	1
p-Chlorotoluene	ND		ug/kg	2.4	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	--	1
Hexachlorobutadiene	ND		ug/kg	4.8	--	1
Isopropylbenzene	ND		ug/kg	1.2	--	1
p-Isopropyltoluene	ND		ug/kg	1.2	--	1
Naphthalene	ND		ug/kg	4.8	--	1
n-Propylbenzene	ND		ug/kg	1.2	--	1

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-13
Client ID: 50TUFT-B105(1-3)
Sample Location: SOMERVILLE, MA
Date Collected: 02/12/24 11:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	--	1
Diethyl ether	ND		ug/kg	2.4	--	1
Diisopropyl Ether	ND		ug/kg	2.4	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.4	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.4	--	1
1,4-Dioxane	ND		ug/kg	97	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	96		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/15/24 13:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07,12 Batch: WG1886042-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/15/24 13:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07,12 Batch: WG1886042-5					
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	100	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/15/24 13:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07,12 Batch: WG1886042-5					
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	92		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/15/24 13:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05,08-11,13 Batch: WG1886062-5					
Methylene chloride	ND		ug/kg	5.0	--
1,1-Dichloroethane	ND		ug/kg	1.0	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	1.0	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.0	--
Tetrachloroethene	ND		ug/kg	0.50	--
Chlorobenzene	ND		ug/kg	0.50	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	0.50	--
Bromodichloromethane	ND		ug/kg	0.50	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	0.50	--
1,3-Dichloropropene, Total	ND		ug/kg	0.50	--
1,1-Dichloropropene	ND		ug/kg	0.50	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	--
Benzene	ND		ug/kg	0.50	--
Toluene	ND		ug/kg	1.0	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	1.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	0.50	--

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/15/24 13:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05,08-11,13 Batch: WG1886062-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	--
1,3-Dichlorobenzene	ND		ug/kg	2.0	--
1,4-Dichlorobenzene	ND		ug/kg	2.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	1.0	--
Xylenes, Total	ND		ug/kg	1.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	2.0	--
1,2,3-Trichloropropane	ND		ug/kg	2.0	--
Styrene	ND		ug/kg	1.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	25	--
Carbon disulfide	ND		ug/kg	10	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	2.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	2.0	--
1,2-Dibromoethane	ND		ug/kg	1.0	--
1,3-Dichloropropane	ND		ug/kg	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	--
Bromobenzene	ND		ug/kg	2.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	2.0	--
o-Chlorotoluene	ND		ug/kg	2.0	--

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/15/24 13:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05,08-11,13 Batch: WG1886062-5					
p-Chlorotoluene	ND		ug/kg	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	--
Diethyl ether	ND		ug/kg	2.0	--
Diisopropyl Ether	ND		ug/kg	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	--
1,4-Dioxane	ND		ug/kg	80	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	92		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/20/24 10:26
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06 Batch: WG1887347-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	76		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/20/24 10:26
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06 Batch: WG1887347-5					
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	100	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/20/24 10:26
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06 Batch: WG1887347-5					
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	94		70-130

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/21/24 09:56
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06 Batch: WG1887734-5					
Methylene chloride	ND		ug/kg	250	--
1,1-Dichloroethane	ND		ug/kg	50	--
Chloroform	ND		ug/kg	75	--
Carbon tetrachloride	ND		ug/kg	50	--
1,2-Dichloropropane	ND		ug/kg	50	--
Dibromochloromethane	ND		ug/kg	50	--
1,1,2-Trichloroethane	ND		ug/kg	50	--
Tetrachloroethene	ND		ug/kg	25	--
Chlorobenzene	ND		ug/kg	25	--
Trichlorofluoromethane	ND		ug/kg	200	--
1,2-Dichloroethane	ND		ug/kg	50	--
1,1,1-Trichloroethane	ND		ug/kg	25	--
Bromodichloromethane	ND		ug/kg	25	--
trans-1,3-Dichloropropene	ND		ug/kg	50	--
cis-1,3-Dichloropropene	ND		ug/kg	25	--
1,3-Dichloropropene, Total	ND		ug/kg	25	--
1,1-Dichloropropene	ND		ug/kg	25	--
Bromoform	ND		ug/kg	200	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	--
Benzene	ND		ug/kg	25	--
Toluene	ND		ug/kg	50	--
Ethylbenzene	ND		ug/kg	50	--
Chloromethane	ND		ug/kg	200	--
Bromomethane	ND		ug/kg	100	--
Vinyl chloride	ND		ug/kg	50	--
Chloroethane	ND		ug/kg	100	--
1,1-Dichloroethene	ND		ug/kg	50	--
trans-1,2-Dichloroethene	ND		ug/kg	75	--
Trichloroethene	ND		ug/kg	25	--

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/21/24 09:56
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06 Batch: WG1887734-5					
1,2-Dichlorobenzene	ND		ug/kg	100	--
1,3-Dichlorobenzene	ND		ug/kg	100	--
1,4-Dichlorobenzene	ND		ug/kg	100	--
Methyl tert butyl ether	ND		ug/kg	100	--
p/m-Xylene	ND		ug/kg	100	--
o-Xylene	ND		ug/kg	50	--
Xylenes, Total	ND		ug/kg	50	--
cis-1,2-Dichloroethene	ND		ug/kg	50	--
1,2-Dichloroethene, Total	ND		ug/kg	50	--
Dibromomethane	ND		ug/kg	100	--
1,2,3-Trichloropropane	ND		ug/kg	100	--
Styrene	ND		ug/kg	50	--
Dichlorodifluoromethane	ND		ug/kg	500	--
Acetone	ND		ug/kg	500	--
Carbon disulfide	ND		ug/kg	500	--
Methyl ethyl ketone	ND		ug/kg	500	--
Methyl isobutyl ketone	ND		ug/kg	500	--
2-Hexanone	ND		ug/kg	500	--
Bromochloromethane	ND		ug/kg	100	--
Tetrahydrofuran	ND		ug/kg	200	--
2,2-Dichloropropane	ND		ug/kg	100	--
1,2-Dibromoethane	ND		ug/kg	50	--
1,3-Dichloropropane	ND		ug/kg	100	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	--
Bromobenzene	ND		ug/kg	100	--
n-Butylbenzene	ND		ug/kg	50	--
sec-Butylbenzene	ND		ug/kg	50	--
tert-Butylbenzene	ND		ug/kg	100	--
o-Chlorotoluene	ND		ug/kg	100	--

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 141,8260D
Analytical Date: 02/21/24 09:56
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 06 Batch: WG1887734-5					
p-Chlorotoluene	ND		ug/kg	100	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	--
Hexachlorobutadiene	ND		ug/kg	200	--
Isopropylbenzene	ND		ug/kg	50	--
p-Isopropyltoluene	ND		ug/kg	50	--
Naphthalene	ND		ug/kg	200	--
n-Propylbenzene	ND		ug/kg	50	--
1,2,3-Trichlorobenzene	ND		ug/kg	100	--
1,2,4-Trichlorobenzene	ND		ug/kg	100	--
1,3,5-Trimethylbenzene	ND		ug/kg	100	--
1,2,4-Trimethylbenzene	ND		ug/kg	100	--
Diethyl ether	ND		ug/kg	100	--
Diisopropyl Ether	ND		ug/kg	100	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	100	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	100	--
1,4-Dioxane	ND		ug/kg	4000	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07,12 Batch: WG1886042-3 WG1886042-4								
Methylene chloride	77		78		70-130	1		20
1,1-Dichloroethane	81		81		70-130	0		20
Chloroform	84		84		70-130	0		20
Carbon tetrachloride	73		73		70-130	0		20
1,2-Dichloropropane	85		85		70-130	0		20
Dibromochloromethane	90		90		70-130	0		20
1,1,2-Trichloroethane	86		86		70-130	0		20
Tetrachloroethene	91		90		70-130	1		20
Chlorobenzene	86		85		70-130	1		20
Trichlorofluoromethane	73		72		70-130	1		20
1,2-Dichloroethane	84		84		70-130	0		20
1,1,1-Trichloroethane	86		85		70-130	1		20
Bromodichloromethane	87		86		70-130	1		20
trans-1,3-Dichloropropene	92		92		70-130	0		20
cis-1,3-Dichloropropene	92		92		70-130	0		20
1,1-Dichloropropene	88		88		70-130	0		20
Bromoform	89		87		70-130	2		20
1,1,2,2-Tetrachloroethane	83		82		70-130	1		20
Benzene	84		84		70-130	0		20
Toluene	84		84		70-130	0		20
Ethylbenzene	86		86		70-130	0		20
Chloromethane	**67**	Q	**67**	Q	70-130	0		20
Bromomethane	73		73		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07,12 Batch: WG1886042-3 WG1886042-4								
Vinyl chloride	72		72		70-130	0		20
Chloroethane	78		78		70-130	0		20
1,1-Dichloroethene	**68**	Q	**68**	Q	70-130	0		20
trans-1,2-Dichloroethene	80		80		70-130	0		20
Trichloroethene	86		86		70-130	0		20
1,2-Dichlorobenzene	88		87		70-130	1		20
1,3-Dichlorobenzene	88		87		70-130	1		20
1,4-Dichlorobenzene	87		86		70-130	1		20
Methyl tert butyl ether	86		86		70-130	0		20
p/m-Xylene	88		88		70-130	0		20
o-Xylene	88		88		70-130	0		20
cis-1,2-Dichloroethene	84		83		70-130	1		20
Dibromomethane	86		84		70-130	2		20
1,2,3-Trichloropropane	82		81		70-130	1		20
Styrene	90		90		70-130	0		20
Dichlorodifluoromethane	**62**	Q	**62**	Q	70-130	0		20
Acetone	**64**	Q	**64**	Q	70-130	0		20
Carbon disulfide	**68**	Q	**68**	Q	70-130	0		20
Methyl ethyl ketone	71		71		70-130	0		20
Methyl isobutyl ketone	85		85		70-130	0		20
2-Hexanone	78		76		70-130	3		20
Bromochloromethane	87		86		70-130	1		20
Tetrahydrofuran	**65**	Q	**64**	Q	70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07,12 Batch: WG1886042-3 WG1886042-4								
2,2-Dichloropropane	87		86		70-130	1		20
1,2-Dibromoethane	88		87		70-130	1		20
1,3-Dichloropropane	86		85		70-130	1		20
1,1,1,2-Tetrachloroethane	89		89		70-130	0		20
Bromobenzene	89		88		70-130	1		20
n-Butylbenzene	91		89		70-130	2		20
sec-Butylbenzene	89		88		70-130	1		20
tert-Butylbenzene	89		89		70-130	0		20
o-Chlorotoluene	88		87		70-130	1		20
p-Chlorotoluene	88		88		70-130	0		20
1,2-Dibromo-3-chloropropane	82		80		70-130	2		20
Hexachlorobutadiene	84		82		70-130	2		20
Isopropylbenzene	89		88		70-130	1		20
p-Isopropyltoluene	90		89		70-130	1		20
Naphthalene	88		86		70-130	2		20
n-Propylbenzene	88		88		70-130	0		20
1,2,3-Trichlorobenzene	92		90		70-130	2		20
1,2,4-Trichlorobenzene	94		90		70-130	4		20
1,3,5-Trimethylbenzene	90		88		70-130	2		20
1,2,4-Trimethylbenzene	90		89		70-130	1		20
Diethyl ether	86		85		70-130	1		20
Diisopropyl Ether	83		83		70-130	0		20
Ethyl-Tert-Butyl-Ether	91		90		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07,12 Batch: WG1886042-3 WG1886042-4								
Tertiary-Amyl Methyl Ether	94		93		70-130	1		20
1,4-Dioxane	87		84		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		89		70-130
Toluene-d8	92		92		70-130
4-Bromofluorobenzene	94		94		70-130
Dibromofluoromethane	91		92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,08-11,13 Batch: WG1886062-3 WG1886062-4								
Methylene chloride	77		78		70-130	1		20
1,1-Dichloroethane	81		81		70-130	0		20
Chloroform	84		84		70-130	0		20
Carbon tetrachloride	73		73		70-130	0		20
1,2-Dichloropropane	85		85		70-130	0		20
Dibromochloromethane	90		90		70-130	0		20
1,1,2-Trichloroethane	86		86		70-130	0		20
Tetrachloroethene	91		90		70-130	1		20
Chlorobenzene	86		85		70-130	1		20
Trichlorofluoromethane	73		72		70-130	1		20
1,2-Dichloroethane	84		84		70-130	0		20
1,1,1-Trichloroethane	86		85		70-130	1		20
Bromodichloromethane	87		86		70-130	1		20
trans-1,3-Dichloropropene	92		92		70-130	0		20
cis-1,3-Dichloropropene	92		92		70-130	0		20
1,1-Dichloropropene	88		88		70-130	0		20
Bromoform	89		87		70-130	2		20
1,1,2,2-Tetrachloroethane	83		82		70-130	1		20
Benzene	84		84		70-130	0		20
Toluene	84		84		70-130	0		20
Ethylbenzene	86		86		70-130	0		20
Chloromethane	**67**	Q	**67**	Q	70-130	0		20
Bromomethane	73		73		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,08-11,13 Batch: WG1886062-3 WG1886062-4								
Vinyl chloride	72		72		70-130	0		20
Chloroethane	78		78		70-130	0		20
1,1-Dichloroethene	**68**	Q	**68**	Q	70-130	0		20
trans-1,2-Dichloroethene	80		80		70-130	0		20
Trichloroethene	86		86		70-130	0		20
1,2-Dichlorobenzene	88		87		70-130	1		20
1,3-Dichlorobenzene	88		87		70-130	1		20
1,4-Dichlorobenzene	87		86		70-130	1		20
Methyl tert butyl ether	86		86		70-130	0		20
p/m-Xylene	88		88		70-130	0		20
o-Xylene	88		88		70-130	0		20
cis-1,2-Dichloroethene	84		83		70-130	1		20
Dibromomethane	86		84		70-130	2		20
1,2,3-Trichloropropane	82		81		70-130	1		20
Styrene	90		90		70-130	0		20
Dichlorodifluoromethane	**62**	Q	**62**	Q	70-130	0		20
Acetone	**64**	Q	**64**	Q	70-130	0		20
Carbon disulfide	**68**	Q	**68**	Q	70-130	0		20
Methyl ethyl ketone	71		71		70-130	0		20
Methyl isobutyl ketone	85		85		70-130	0		20
2-Hexanone	78		76		70-130	3		20
Bromochloromethane	87		86		70-130	1		20
Tetrahydrofuran	**65**	Q	**64**	Q	70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,08-11,13 Batch: WG1886062-3 WG1886062-4								
2,2-Dichloropropane	87		86		70-130	1		20
1,2-Dibromoethane	88		87		70-130	1		20
1,3-Dichloropropane	86		85		70-130	1		20
1,1,1,2-Tetrachloroethane	89		89		70-130	0		20
Bromobenzene	89		88		70-130	1		20
n-Butylbenzene	91		89		70-130	2		20
sec-Butylbenzene	89		88		70-130	1		20
tert-Butylbenzene	89		89		70-130	0		20
o-Chlorotoluene	88		87		70-130	1		20
p-Chlorotoluene	88		88		70-130	0		20
1,2-Dibromo-3-chloropropane	82		80		70-130	2		20
Hexachlorobutadiene	84		82		70-130	2		20
Isopropylbenzene	89		88		70-130	1		20
p-Isopropyltoluene	90		89		70-130	1		20
Naphthalene	88		86		70-130	2		20
n-Propylbenzene	88		88		70-130	0		20
1,2,3-Trichlorobenzene	92		90		70-130	2		20
1,2,4-Trichlorobenzene	94		90		70-130	4		20
1,3,5-Trimethylbenzene	90		88		70-130	2		20
1,2,4-Trimethylbenzene	90		89		70-130	1		20
Diethyl ether	86		85		70-130	1		20
Diisopropyl Ether	83		83		70-130	0		20
Ethyl-Tert-Butyl-Ether	91		90		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05,08-11,13 Batch: WG1886062-3 WG1886062-4								
Tertiary-Amyl Methyl Ether	94		93		70-130	1		20
1,4-Dioxane	87		84		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		89		70-130
Toluene-d8	92		92		70-130
4-Bromofluorobenzene	94		94		70-130
Dibromofluoromethane	91		92		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1887347-3 WG1887347-4								
Methylene chloride	95		93		70-130	2		20
1,1-Dichloroethane	97		93		70-130	4		20
Chloroform	98		95		70-130	3		20
Carbon tetrachloride	100		97		70-130	3		20
1,2-Dichloropropane	90		87		70-130	3		20
Dibromochloromethane	96		95		70-130	1		20
1,1,2-Trichloroethane	87		86		70-130	1		20
Tetrachloroethene	111		106		70-130	5		20
Chlorobenzene	103		100		70-130	3		20
Trichlorofluoromethane	113		110		70-130	3		20
1,2-Dichloroethane	86		85		70-130	1		20
1,1,1-Trichloroethane	113		108		70-130	5		20
Bromodichloromethane	93		91		70-130	2		20
trans-1,3-Dichloropropene	90		88		70-130	2		20
cis-1,3-Dichloropropene	96		93		70-130	3		20
1,1-Dichloropropene	106		102		70-130	4		20
Bromoform	87		87		70-130	0		20
1,1,2,2-Tetrachloroethane	76		78		70-130	3		20
Benzene	103		99		70-130	4		20
Toluene	103		98		70-130	5		20
Ethylbenzene	104		101		70-130	3		20
Chloromethane	**68**	Q	**64**	Q	70-130	6		20
Bromomethane	120		109		70-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1887347-3 WG1887347-4								
Vinyl chloride	80		76		70-130	5		20
Chloroethane	98		93		70-130	5		20
1,1-Dichloroethene	110		106		70-130	4		20
trans-1,2-Dichloroethene	107		104		70-130	3		20
Trichloroethene	110		106		70-130	4		20
1,2-Dichlorobenzene	100		97		70-130	3		20
1,3-Dichlorobenzene	104		101		70-130	3		20
1,4-Dichlorobenzene	103		99		70-130	4		20
Methyl tert butyl ether	85		85		70-130	0		20
p/m-Xylene	110		106		70-130	4		20
o-Xylene	104		101		70-130	3		20
cis-1,2-Dichloroethene	102		98		70-130	4		20
Dibromomethane	89		87		70-130	2		20
1,2,3-Trichloropropane	76		77		70-130	1		20
Styrene	102		99		70-130	3		20
Dichlorodifluoromethane	**49**	Q	**46**	Q	70-130	6		20
Acetone	**68**	Q	**67**	Q	70-130	1		20
Carbon disulfide	97		94		70-130	3		20
Methyl ethyl ketone	**62**	Q	**65**	Q	70-130	5		20
Methyl isobutyl ketone	**69**	Q	70		70-130	1		20
2-Hexanone	**64**	Q	**65**	Q	70-130	2		20
Bromochloromethane	97		95		70-130	2		20
Tetrahydrofuran	**58**	Q	**63**	Q	70-130	8		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1887347-3 WG1887347-4								
2,2-Dichloropropane	106		101		70-130	5		20
1,2-Dibromoethane	92		91		70-130	1		20
1,3-Dichloropropane	88		87		70-130	1		20
1,1,1,2-Tetrachloroethane	102		100		70-130	2		20
Bromobenzene	99		96		70-130	3		20
n-Butylbenzene	107		103		70-130	4		20
sec-Butylbenzene	108		103		70-130	5		20
tert-Butylbenzene	107		102		70-130	5		20
o-Chlorotoluene	95		94		70-130	1		20
p-Chlorotoluene	98		93		70-130	5		20
1,2-Dibromo-3-chloropropane	74		79		70-130	7		20
Hexachlorobutadiene	115		111		70-130	4		20
Isopropylbenzene	105		100		70-130	5		20
p-Isopropyltoluene	108		104		70-130	4		20
Naphthalene	95		91		70-130	4		20
n-Propylbenzene	104		100		70-130	4		20
1,2,3-Trichlorobenzene	103		100		70-130	3		20
1,2,4-Trichlorobenzene	109		105		70-130	4		20
1,3,5-Trimethylbenzene	102		98		70-130	4		20
1,2,4-Trimethylbenzene	99		95		70-130	4		20
Diethyl ether	89		89		70-130	0		20
Diisopropyl Ether	85		82		70-130	4		20
Ethyl-Tert-Butyl-Ether	87		86		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1887347-3 WG1887347-4								
Tertiary-Amyl Methyl Ether	87		87		70-130	0		20
1,4-Dioxane	77		76		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	84		84		70-130
Toluene-d8	92		91		70-130
4-Bromofluorobenzene	87		87		70-130
Dibromofluoromethane	96		97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1887734-3 WG1887734-4								
Methylene chloride	96		96		70-130	0		20
1,1-Dichloroethane	98		98		70-130	0		20
Chloroform	99		100		70-130	1		20
Carbon tetrachloride	99		99		70-130	0		20
1,2-Dichloropropane	92		92		70-130	0		20
Dibromochloromethane	98		101		70-130	3		20
1,1,2-Trichloroethane	90		92		70-130	2		20
Tetrachloroethene	108		108		70-130	0		20
Chlorobenzene	103		104		70-130	1		20
Trichlorofluoromethane	106		106		70-130	0		20
1,2-Dichloroethane	88		90		70-130	2		20
1,1,1-Trichloroethane	112		111		70-130	1		20
Bromodichloromethane	96		96		70-130	0		20
trans-1,3-Dichloropropene	92		93		70-130	1		20
cis-1,3-Dichloropropene	97		98		70-130	1		20
1,1-Dichloropropene	104		104		70-130	0		20
Bromoform	94		96		70-130	2		20
1,1,2,2-Tetrachloroethane	84		85		70-130	1		20
Benzene	103		104		70-130	1		20
Toluene	102		102		70-130	0		20
Ethylbenzene	105		105		70-130	0		20
Chloromethane	**66**	Q	**65**	Q	70-130	2		20
Bromomethane	108		108		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1887734-3 WG1887734-4								
Vinyl chloride	75		76		70-130	1		20
Chloroethane	95		95		70-130	0		20
1,1-Dichloroethene	108		107		70-130	1		20
trans-1,2-Dichloroethene	108		107		70-130	1		20
Trichloroethene	108		109		70-130	1		20
1,2-Dichlorobenzene	102		102		70-130	0		20
1,3-Dichlorobenzene	106		105		70-130	1		20
1,4-Dichlorobenzene	104		104		70-130	0		20
Methyl tert butyl ether	88		90		70-130	2		20
p/m-Xylene	109		110		70-130	1		20
o-Xylene	104		104		70-130	0		20
cis-1,2-Dichloroethene	102		103		70-130	1		20
Dibromomethane	92		93		70-130	1		20
1,2,3-Trichloropropane	81		83		70-130	2		20
Styrene	101		101		70-130	0		20
Dichlorodifluoromethane	**41**	Q	**41**	Q	70-130	0		20
Acetone	77		**69**	Q	70-130	11		20
Carbon disulfide	96		96		70-130	0		20
Methyl ethyl ketone	**68**	Q	70		70-130	3		20
Methyl isobutyl ketone	73		76		70-130	4		20
2-Hexanone	**69**	Q	70		70-130	1		20
Bromochloromethane	98		99		70-130	1		20
Tetrahydrofuran	**64**	Q	**64**	Q	70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1887734-3 WG1887734-4								
2,2-Dichloropropane	105		105		70-130	0		20
1,2-Dibromoethane	95		96		70-130	1		20
1,3-Dichloropropane	90		92		70-130	2		20
1,1,1,2-Tetrachloroethane	104		105		70-130	1		20
Bromobenzene	101		100		70-130	1		20
n-Butylbenzene	108		106		70-130	2		20
sec-Butylbenzene	108		107		70-130	1		20
tert-Butylbenzene	107		106		70-130	1		20
o-Chlorotoluene	95		98		70-130	3		20
p-Chlorotoluene	99		98		70-130	1		20
1,2-Dibromo-3-chloropropane	86		87		70-130	1		20
Hexachlorobutadiene	116		115		70-130	1		20
Isopropylbenzene	104		104		70-130	0		20
p-Isopropyltoluene	109		108		70-130	1		20
Naphthalene	96		96		70-130	0		20
n-Propylbenzene	105		104		70-130	1		20
1,2,3-Trichlorobenzene	107		107		70-130	0		20
1,2,4-Trichlorobenzene	114		112		70-130	2		20
1,3,5-Trimethylbenzene	103		101		70-130	2		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20
Diethyl ether	91		94		70-130	3		20
Diisopropyl Ether	86		87		70-130	1		20
Ethyl-Tert-Butyl-Ether	90		91		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 06 Batch: WG1887734-3 WG1887734-4								
Tertiary-Amyl Methyl Ether	89		91		70-130	2		20
1,4-Dioxane	90		91		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	84		86		70-130
Toluene-d8	91		91		70-130
4-Bromofluorobenzene	85		86		70-130
Dibromofluoromethane	96		98		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-01
Client ID: 50TUFT-B101(0-1)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 08:30
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.0		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-02
Client ID: 50TUFT-B101(1-3)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 08:31
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.7		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-03
Client ID: 50TUFT-B101(3-5)
Sample Location: SOMERVILLE, MA

Date Collected: 02/12/24 08:32
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.1		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-04
Client ID: 50TUFT-B102(0-1)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 09:00
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.6		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-05
Client ID: 50TUFT-B102(1-3)
Sample Location: SOMERVILLE, MA

Date Collected: 02/12/24 09:01
Date Received: 02/14/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.6		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-06
Client ID: 50TUFT-B103(0-1)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 09:30
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.1		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-07
Client ID: 50TUFT-B103(1-3)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 09:31
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.4		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-08
Client ID: 50TUFT-B103(3-5)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 09:32
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.7		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-09
Client ID: 50TUFT-B104(0-1)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 10:00
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.8		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-10
Client ID: 50TUFT-B104(1-3)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 10:01
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.6		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-11
Client ID: 50TUFT-B104(3-5)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 10:02
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.3		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-12
Client ID: 50TUFT-B105(0-1)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 11:00
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.1		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Project Name: TUFTS STREET
Project Number: 045163
Lab Number: L2408101
Report Date: 02/21/24

SAMPLE RESULTS

Lab ID: L2408101-13
Client ID: 50TUFT-B105(1-3)
Sample Location: SOMERVILLE, MA
Sample Depth:
Matrix: Soil

Date Collected: 02/12/24 11:01
Date Received: 02/14/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.8		%	0.100	NA	1	-	02/15/24 08:23	121,2540G	ROI

Lab Duplicate Analysis

Batch Quality Control

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG1885410-1 QC Sample: L2408101-01 Client ID: 50TUFT-B101(0-1)						
Solids, Total	80.0	79.7	%	0		20

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2408101-01A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-01B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-01C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-01D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-02A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-02B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-02C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-02D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-03A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-03B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-03C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-03D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-04A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-04B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-04C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-04D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-05A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-05B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-05C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-05D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-06A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-06B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-06C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)

*Values in parentheses indicate holding time in days

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2408101-06D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-07A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-07B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-07C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-07D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-08A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-08B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-08C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-08D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-09A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-09B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-09C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-09D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-10A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-10B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-10C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-10D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-11A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-11B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-11C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-11D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-12A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-12B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-12C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-12D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L2408101-13A	Vial MeOH preserved	A	NA		2.8	Y	Absent		MCP-8260HLW-21(14)
L2408101-13B	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)
L2408101-13C	Vial water preserved	A	NA		2.8	Y	Absent	12-FEB-24 12:45	MCP-8260HLW-21(14)

*Values in parentheses indicate holding time in days

Project Name: TUFTS STREET
Project Number: 045163

Lab Number: L2408101
Report Date: 02/21/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2408101-13D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name:	TUFTS STREET	**Lab Number:**	L2408101
Project Number:	045163	**Report Date:**	02/21/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2408101
Project Number:	045163	**Report Date:**	02/21/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2408101
Project Number:	045163	**Report Date:**	02/21/24

Data Qualifiers

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: Data Usability Report

Project Name:	TUFTS STREET	**Lab Number:**	L2408101
Project Number:	045163	**Report Date:**	02/21/24

REFERENCES

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

141 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA and IIB, November 2021.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Chain-of-Custody Record

Laboratory: Alpha

Laboratory Job # (Lab use only) L2408101

GEI Consultants
400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000

Project Information

Project Name: Tufts St

Project Location: Somerville, MA

Project Number: 045163

Project Manager: Chris Coner

Send Report to: cconer@geiconsultants.com
labdata@geiconsultants.com

MCP PRESUMPTIVE CERTAINTY AND MCP ANALYTICAL METHODS REQUIRED: (YES) NO

STATE AND FEDERAL REGULATORY REQUIREMENTS/REPORT LIMITS

State/Federal Program: (MA) 401WQC Other _____ NH RI CT NY ME

MA MCP Criteria are Method 1 S-1 and GW-2/GW-3. Circle if GW-1 is required.

Sample Handling

Samples Field Filtered: YES NO (NA)

Sampled Shipped With Ice: (YES) NO

Lab Sample Number	GEI Sample ID	Collection Date	Collection Time	Matrix	No. of Bottles	Sampler(s) Initials	Preservative: MeOH/DI H2O	Preservative: None	Analysis: VOCs (8260)	Analysis: % Solids	Sample Specific Remarks
08101-01	50TUFT-B101(0-1)	2/12/2024	8:30	SO	4	NMT		X	X	X	
02	50TUFT-B101(1-3)	2/12/2024	8:31	SO	4	NMT		X	X	X	
03	50TUFT-B101(3-5)	2/12/2024	8:32	SO	4	NMT		X	X	X	
04	50TUFT-B102(0-1)	2/12/2024	9:00	SO	4	NMT		X	X	X	
05	50TUFT-B102(1-3)	2/12/2024	9:01	SO	4	NMT		X	X	X	
06	50TUFT-B103(0-1)	2/12/2024	9:30	SO	4	NMT		X	X	X	
07	50TUFT-B103(1-3)	2/12/2024	9:31	SO	4	NMT		X	X	X	
08	50TUFT-B103(3-5)	2/12/2024	9:32	SO	4	NMT		X	X	X	
09	50TUFT-B104(0-1)	2/12/2024	10:00	SO	4	NMT		X	X	X	
10	50TUFT-B104(1-3)	2/12/2024	10:01	SO	4	NMT		X	X	X	
11	50TUFT-B104(3-5)	2/12/2024	10:02	SO	4	NMT		X	X	X	
12	50TUFT-B105(0-1)	2/12/2024	11:00	SO	4	NMT		X	X	X	

	Relinquished by sampler: (signature)	Date	Time	Received by: (signature)
1.	Nicholas Truccolo	2/12/2024	12:45	1. GEI Sample Fridge
2.	GEI Sample Fridge	2/14/24	1200	2.
3.		2/14/24	1200	3. 2/14 1200
4.		2/14/	16:15	4.
5.				5.

Turnaround Time (Business days):

Standard TAT X 4-Day ____ 3-Day ____
2-Day ____ 1-Day ____ Other ____

Before submitting rush turnaround samples, you **must** notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

VOAs frozen on 2/12/2024

Sample Matrix Abbreviations: SO = Soil GW = Groundwater SW = Surface Water SD = Sediment CO = Concrete PC = Paint Chip CLK = Caulk

Chain-of-Custody Record

Laboratory: Alpha

Laboratory Job # (Lab use only) L2408101

GEI Consultants
400 Unicorn Park Drive
Woburn, MA 01801
PH: 781.721.4000

Project Information

Project Name: Tufts St
Project Location: Somerville, MA
Project Number: 045163
Project Manager: Chris Coner

Send Report to: cconer@geiconsultants.com
labdata@geiconsultants.com

Preservative

MeOH:DI H2O | None

Analysis

MCP PRESUMPTIVE CERTAINTY AND MCP ANALYTICAL METHODS REQUIRED: (YES) NO

STATE AND FEDERAL REGULATORY REQUIREMENTS/REPORT LIMITS

State/Federal Program: (MA) 401WQC Other ____ NH RI CT NY ME

MA MCP Criteria are Method 1 S-1 and GW-2/GW-3. Circle if GW-1 is required.

Sample Handling

Samples Field Filtered: YES NO (NA)

Sampled Shipped With Ice: (YES) NO

Lab Sample Number	GEI Sample ID	Collection Date	Collection Time	Matrix	No. of Bottles	Sampler(s) Initials	VOCs (8260)	% Solids	Sample Specific Remarks
08101-13	50TUFT-B105(1-3)	2/12/2024	11:01	SO	4	NMT	X	X	

Relinquished by sampler: (signature)	Date	Time	Received by: (signature)
1. Nicholas Fuoccolo	2/12/2024	12:45	1. GEI Sample Fridge
Relinquished by sampler: (signature)	Date:	Time	Received by: (signature)
2. GEI Sample Fridge	2/14/24	1200	2.
Relinquished by: (signature)	Date:	Time:	Received by: (signature)
3.	2/14/24	1207	3. 2/14/24 12:4
Relinquished by: (signature)	Date:	Time:	Received by: (signature)
4.	2/14/24	1415	4.
Relinquished by: (signature)	Date:	Time:	Received by: (signature)
5.			5.

Turnaround Time (Business days):

Standard TAT X 4-Day ____ 3-Day ____
2-Day ____ 1-Day ____ Other ____

Before submitting rush turnaround samples, you **must** notify the laboratory to confirm that the TAT can be achieved.

Additional Requirements/Comments/Remarks:

VOAs frozen on 2/12/2024

Sample Matrix Abbreviations: SO = Soil GW = Groundwater SW = Surface Water SD = Sediment CO = Concrete PC = Paint Chip CLK = Caulk

Method Blank Summary
Form 4
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Lab Sample ID	: WG1886042-5	**Lab File ID**	: V00240215A06
Instrument ID	: VOA100		
Matrix	: SOIL	**Analysis Date**	: 02/15/24 13:52

Client Sample No.	Lab Sample ID	Analysis Date
WG1886042-3LCS	WG1886042-3	02/15/24 11:51
WG1886042-4LCSD	WG1886042-4	02/15/24 12:22
50TUFT-B103(1-3)	L2408101-07	02/15/24 20:26
50TUFT-B105(0-1)	L2408101-12	02/15/24 20:57

Method Blank Summary
Form 4
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Lab Sample ID	: WG1886062-5	**Lab File ID**	: V00240215A06
Instrument ID	: VOA100		
Matrix	: SOIL	**Analysis Date**	: 02/15/24 13:52

Client Sample No.	Lab Sample ID	Analysis Date
WG1886062-3LCS	WG1886062-3	02/15/24 11:51
WG1886062-4LCSD	WG1886062-4	02/15/24 12:22
50TUFT-B101(0-1)	L2408101-01	02/15/24 15:23
50TUFT-B101(1-3)	L2408101-02	02/15/24 15:54
50TUFT-B101(3-5)	L2408101-03	02/15/24 16:24
50TUFT-B102(0-1)	L2408101-04	02/15/24 16:54
50TUFT-B102(1-3)	L2408101-05	02/15/24 17:25
50TUFT-B103(3-5)	L2408101-08	02/15/24 17:55
50TUFT-B104(0-1)	L2408101-09	02/15/24 18:25
50TUFT-B104(1-3)	L2408101-10	02/15/24 18:56
50TUFT-B104(3-5)	L2408101-11	02/15/24 19:26
50TUFT-B105(1-3)	L2408101-13	02/15/24 19:56

Method Blank Summary
Form 4
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Lab Sample ID	: WG1887347-5	**Lab File ID**	: V23240220A05
Instrument ID	: VOA123		
Matrix	: SOIL	**Analysis Date**	: 02/20/24 10:26

Client Sample No.	Lab Sample ID	Analysis Date
WG1887347-3LCS	WG1887347-3	02/20/24 08:43
WG1887347-4LCSD	WG1887347-4	02/20/24 09:09
50TUFT-B103(0-1)	L2408101-06	02/20/24 14:19

Method Blank Summary
Form 4
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Lab Sample ID	: WG1887734-5	**Lab File ID**	: V23240221A05
Instrument ID	: VOA123		
Matrix	: SOIL	**Analysis Date**	: 02/21/24 09:56

Client Sample No.	Lab Sample ID	Analysis Date
WG1887734-3LCS	WG1887734-3	02/21/24 08:39
WG1887734-4LCSD	WG1887734-4	02/21/24 09:05
50TUFT-B103(0-1)	L2408101-06D	02/21/24 12:25

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Instrument ID	: VOA100	**Calibration Date**	: 02/15/24 11:51
Lab File ID	: V00240215A02	**Init. Calib. Date(s)**	: 02/07/24 02/08/24
Sample No	: WG1886062-2	**Init. Calib. Times**	: 20:14 01:16
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	159	0
Dichlorodifluoromethane	0.319	0.199	-	37.6*	20	106	0
Chloromethane	0.487	0.328	-	32.6*	20	105	0
Vinyl chloride	0.371	0.265	-	28.6*	20	113	0
Bromomethane	0.176	0.129	-	26.7*	20	118	0
Chloroethane	0.187	0.145	-	22.5*	20	117	0
Trichlorofluoromethane	0.338	0.247	-	26.9*	20	125	0
Ethyl ether	0.105	0.091	-	13.3	20	130	0
1,1-Dichloroethene	40	27.291	-	31.8*	20	127	0
Carbon disulfide	0.84	0.567	-	32.5*	20	122	0
Methylene chloride	0.23	0.178	-	22.6*	20	121	0
Acetone	0.086	0.056	-	34.9*	20	110	0
trans-1,2-Dichloroethene	0.224	0.179	-	20.1*	20	124	0
Methyl tert-butyl ether	0.574	0.494	-	13.9	20	131	0
Diisopropyl ether	1.101	0.913	-	17.1	20	123	0
1,1-Dichloroethane	0.55	0.445	-	19.1	20	122	0
Ethyl tert-butyl ether	0.911	0.825	-	9.4	20	133	0
cis-1,2-Dichloroethene	0.267	0.223	-	16.5	20	129	0
2,2-Dichloropropane	0.344	0.298	-	13.4	20	139	0
Bromochloromethane	0.125	0.108	-	13.6	20	131	0
Chloroform	0.431	0.364	-	15.5	20	128	0
Carbon tetrachloride	40	29.31	-	26.7*	20	139	0
Tetrahydrofuran	0.09	0.059	-	34.4*	20	114	0
Dibromofluoromethane	0.275	0.25	-	9.1	20	142	0
1,1,1-Trichloroethane	0.352	0.302	-	14.2	20	135	0
2-Butanone	0.125	0.089	-	28.8*	20	118	0
1,1-Dichloropropene	0.307	0.269	-	12.4	20	138	0
Benzene	0.934	0.783	-	16.2	20	127	0
tert-Amyl methyl ether	0.606	0.567	-	6.4	20	141	0
1,2-Dichloroethane-d4	0.301	0.27	-	10.3	20	146	0
1,2-Dichloroethane	0.342	0.287	-	16.1	20	130	0
Trichloroethene	0.242	0.208	-	14	20	138	0
Dibromomethane	0.137	0.118	-	13.9	20	128	0
1,2-Dichloropropane	0.302	0.255	-	15.6	20	126	0
Bromodichloromethane	0.308	0.267*	-	13.3	20	126	0
1,4-Dioxane	0.00217	0.00189*	-	12.9	20	123	0
cis-1,3-Dichloropropene	0.362	0.333	-	8	20	130	0
Chlorobenzene-d5	1	1	-	0	20	155	0
Toluene-d8	1.383	1.273	-	8	20	142	0
Toluene	0.781	0.659	-	15.6	20	128	0
4-Methyl-2-pentanone	0.12	0.102	-	15	20	123	0
Tetrachloroethene	0.325	0.297	-	8.6	20	140	0
trans-1,3-Dichloropropene	0.418	0.384	-	8.1	20	133	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Instrument ID	: VOA100	**Calibration Date**	: 02/15/24 11:51
Lab File ID	: V00240215A02	**Init. Calib. Date(s)**	: 02/07/24 02/08/24
Sample No	: WG1886062-2	**Init. Calib. Times**	: 20:14 01:16
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,1,2-Trichloroethane	0.208	0.179*	-	13.9	20	129	0
Chlorodibromomethane	0.31	0.28	-	9.7	20	131	0
1,3-Dichloropropane	0.436	0.375	-	14	20	129	0
1,2-Dibromoethane	0.252	0.223	-	11.5	20	130	0
2-Hexanone	0.224	0.174	-	22.3*	20	118	0
Chlorobenzene	0.884	0.756	-	14.5	20	129	0
Ethylbenzene	1.461	1.258	-	13.9	20	132	0
1,1,1,2-Tetrachloroethane	0.315	0.281	-	10.8	20	128	0
p/m Xylene	0.563	0.498	-	11.5	20	132	0
o Xylene	0.551	0.484	-	12.2	20	129	0
Styrene	0.901	0.81	-	10.1	20	130	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	152	0
Bromoform	0.373	0.333	-	10.7	20	131	0
Isopropylbenzene	2.707	2.418	-	10.7	20	134	0
4-Bromofluorobenzene	0.905	0.852	-	5.9	20	144	0
Bromobenzene	0.701	0.621	-	11.4	20	131	0
n-Propylbenzene	3.172	2.808	-	11.5	20	135	0
1,1,2,2-Tetrachloroethane	0.592	0.491	-	17.1	20	124	0
2-Chlorotoluene	1.899	1.662	-	12.5	20	131	0
1,3,5-Trimethylbenzene	2.325	2.087	-	10.2	20	137	0
1,2,3-Trichloropropane	0.478	0.394	-	17.6	20	126	0
4-Chlorotoluene	1.944	1.719	-	11.6	20	136	0
tert-Butylbenzene	2.015	1.79	-	11.2	20	138	0
1,2,4-Trimethylbenzene	2.268	2.039	-	10.1	20	136	0
sec-Butylbenzene	2.967	2.653	-	10.6	20	139	0
p-Isopropyltoluene	2.612	2.361	-	9.6	20	141	0
1,3-Dichlorobenzene	1.387	1.219	-	12.1	20	131	0
1,4-Dichlorobenzene	1.4	1.222	-	12.7	20	132	0
n-Butylbenzene	2.247	2.037	-	9.3	20	137	0
1,2-Dichlorobenzene	1.285	1.136	-	11.6	20	129	0
1,2-Dibromo-3-chloropropan	0.111	0.091	-	18	20	118	0
Hexachlorobutadiene	0.494	0.418	-	15.4	20	139	0
1,2,4-Trichlorobenzene	0.905	0.847	-	6.4	20	140	0
Naphthalene	2.069	1.829	-	11.6	20	127	0
1,2,3-Trichlorobenzene	0.847	0.778	-	8.1	20	135	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Instrument ID	: VOA100	**Calibration Date**	: 02/15/24 11:51
Lab File ID	: V00240215A02	**Init. Calib. Date(s)**	: 02/07/24 02/08/24
Sample No	: WG1886042-2	**Init. Calib. Times**	: 20:14 01:16
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	159	0
Dichlorodifluoromethane	0.319	0.199	-	37.6*	20	106	0
Chloromethane	0.487	0.328	-	32.6*	20	105	0
Vinyl chloride	0.371	0.265	-	28.6*	20	113	0
Bromomethane	0.176	0.129	-	26.7*	20	118	0
Chloroethane	0.187	0.145	-	22.5*	20	117	0
Trichlorofluoromethane	0.338	0.247	-	26.9*	20	125	0
Ethyl ether	0.105	0.091	-	13.3	20	130	0
1,1-Dichloroethene	40	27.291	-	31.8*	20	127	0
Carbon disulfide	0.84	0.567	-	32.5*	20	122	0
Methylene chloride	0.23	0.178	-	22.6*	20	121	0
Acetone	0.086	0.056	-	34.9*	20	110	0
trans-1,2-Dichloroethene	0.224	0.179	-	20.1*	20	124	0
Methyl tert-butyl ether	0.574	0.494	-	13.9	20	131	0
Diisopropyl ether	1.101	0.913	-	17.1	20	123	0
1,1-Dichloroethane	0.55	0.445	-	19.1	20	122	0
Ethyl tert-butyl ether	0.911	0.825	-	9.4	20	133	0
cis-1,2-Dichloroethene	0.267	0.223	-	16.5	20	129	0
2,2-Dichloropropane	0.344	0.298	-	13.4	20	139	0
Bromochloromethane	0.125	0.108	-	13.6	20	131	0
Chloroform	0.431	0.364	-	15.5	20	128	0
Carbon tetrachloride	40	29.31	-	26.7*	20	139	0
Tetrahydrofuran	0.09	0.059	-	34.4*	20	114	0
Dibromofluoromethane	0.275	0.25	-	9.1	20	142	0
1,1,1-Trichloroethane	0.352	0.302	-	14.2	20	135	0
2-Butanone	0.125	0.089	-	28.8*	20	118	0
1,1-Dichloropropene	0.307	0.269	-	12.4	20	138	0
Benzene	0.934	0.783	-	16.2	20	127	0
tert-Amyl methyl ether	0.606	0.567	-	6.4	20	141	0
1,2-Dichloroethane-d4	0.301	0.27	-	10.3	20	146	0
1,2-Dichloroethane	0.342	0.287	-	16.1	20	130	0
Trichloroethene	0.242	0.208	-	14	20	138	0
Dibromomethane	0.137	0.118	-	13.9	20	128	0
1,2-Dichloropropane	0.302	0.255	-	15.6	20	126	0
Bromodichloromethane	0.308	0.267*	-	13.3	20	126	0
1,4-Dioxane	0.00217	0.00189*	-	12.9	20	123	0
cis-1,3-Dichloropropene	0.362	0.333	-	8	20	130	0
Chlorobenzene-d5	1	1	-	0	20	155	0
Toluene-d8	1.383	1.273	-	8	20	142	0
Toluene	0.781	0.659	-	15.6	20	128	0
4-Methyl-2-pentanone	0.12	0.102	-	15	20	123	0
Tetrachloroethene	0.325	0.297	-	8.6	20	140	0
trans-1,3-Dichloropropene	0.418	0.384	-	8.1	20	133	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		Lab Number	: L2408101	
Project Name	: TUFTS STREET		Project Number	: 045163	
Instrument ID	: VOA100		Calibration Date	: 02/15/24 11:51	
Lab File ID	: V00240215A02		Init. Calib. Date(s)	: 02/07/24	02/08/24
Sample No	: WG1886042-2		Init. Calib. Times	: 20:14	01:16
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,1,2-Trichloroethane	0.208	0.179*	-	13.9	20	129	0
Chlorodibromomethane	0.31	0.28	-	9.7	20	131	0
1,3-Dichloropropane	0.436	0.375	-	14	20	129	0
1,2-Dibromoethane	0.252	0.223	-	11.5	20	130	0
2-Hexanone	0.224	0.174	-	22.3*	20	118	0
Chlorobenzene	0.884	0.756	-	14.5	20	129	0
Ethylbenzene	1.461	1.258	-	13.9	20	132	0
1,1,1,2-Tetrachloroethane	0.315	0.281	-	10.8	20	128	0
p/m Xylene	0.563	0.498	-	11.5	20	132	0
o Xylene	0.551	0.484	-	12.2	20	129	0
Styrene	0.901	0.81	-	10.1	20	130	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	152	0
Bromoform	0.373	0.333	-	10.7	20	131	0
Isopropylbenzene	2.707	2.418	-	10.7	20	134	0
4-Bromofluorobenzene	0.905	0.852	-	5.9	20	144	0
Bromobenzene	0.701	0.621	-	11.4	20	131	0
n-Propylbenzene	3.172	2.808	-	11.5	20	135	0
1,1,2,2-Tetrachloroethane	0.592	0.491	-	17.1	20	124	0
2-Chlorotoluene	1.899	1.662	-	12.5	20	131	0
1,3,5-Trimethylbenzene	2.325	2.087	-	10.2	20	137	0
1,2,3-Trichloropropane	0.478	0.394	-	17.6	20	126	0
4-Chlorotoluene	1.944	1.719	-	11.6	20	136	0
tert-Butylbenzene	2.015	1.79	-	11.2	20	138	0
1,2,4-Trimethylbenzene	2.268	2.039	-	10.1	20	136	0
sec-Butylbenzene	2.967	2.653	-	10.6	20	139	0
p-Isopropyltoluene	2.612	2.361	-	9.6	20	141	0
1,3-Dichlorobenzene	1.387	1.219	-	12.1	20	131	0
1,4-Dichlorobenzene	1.4	1.222	-	12.7	20	132	0
n-Butylbenzene	2.247	2.037	-	9.3	20	137	0
1,2-Dichlorobenzene	1.285	1.136	-	11.6	20	129	0
1,2-Dibromo-3-chloropropan	0.111	0.091	-	18	20	118	0
Hexachlorobutadiene	0.494	0.418	-	15.4	20	139	0
1,2,4-Trichlorobenzene	0.905	0.847	-	6.4	20	140	0
Naphthalene	2.069	1.829	-	11.6	20	127	0
1,2,3-Trichlorobenzene	0.847	0.778	-	8.1	20	135	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Instrument ID	: VOA123	**Calibration Date**	: 02/20/24 08:43
Lab File ID	: V23240220A01	**Init. Calib. Date(s)**	: 02/07/24 02/08/24
Sample No	: WG1887347-2	**Init. Calib. Times**	: 20:15 00:33
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	110	0
Dichlorodifluoromethane	0.309	0.151	-	51.1*	20	59	0
Chloromethane	0.428	0.293	-	31.5*	20	77	0
Vinyl chloride	40	32.022	-	19.9	20	100	0
Bromomethane	0.156	0.187	-	-19.9	20	140	0
Chloroethane	0.18	0.176	-	2.2	20	112	0
Trichlorofluoromethane	0.304	0.343	-	-12.8	20	135	0
Ethyl ether	0.14	0.124	-	11.4	20	98	0
1,1-Dichloroethene	0.224	0.246	-	-9.8	20	126	0
Carbon disulfide	0.855	0.83	-	2.9	20	115	0
Methylene chloride	0.302	0.288	-	4.6	20	108	0
Acetone	40	27.01	-	32.5*	20	78	0
trans-1,2-Dichloroethene	0.272	0.293	-	-7.7	20	121	0
Methyl tert-butyl ether	0.756	0.645	-	14.7	20	94	0
Diisopropyl ether	1.212	1.026	-	15.3	20	92	0
1,1-Dichloroethane	0.556	0.541	-	2.7	20	107	0
Ethyl tert-butyl ether	1.027	0.898	-	12.6	20	95	0
cis-1,2-Dichloroethene	0.318	0.323	-	-1.6	20	111	0
2,2-Dichloropropane	0.387	0.412	-	-6.5	20	120	0
Bromochloromethane	0.157	0.153	-	2.5	20	107	0
Chloroform	0.512	0.502	-	2	20	108	0
Carbon tetrachloride	40	40.218	-	-0.5	20	131	0
Tetrahydrofuran	0.098	0.057	-	41.8*	20	72	0
Dibromofluoromethane	0.262	0.251	-	4.2	20	106	0
1,1,1-Trichloroethane	0.397	0.45	-	-13.4	20	127	0
2-Butanone	0.133	0.082	-	38.3*	20	71	0
1,1-Dichloropropene	40	42.625	-	-6.6	20	127	0
Benzene	1.072	1.105	-	-3.1	20	113	0
tert-Amyl methyl ether	0.792	0.688	-	13.1	20	95	0
1,2-Dichloroethane-d4	0.27	0.226	-	16.3	20	94	0
1,2-Dichloroethane	0.394	0.339	-	14	20	94	0
Trichloroethene	0.28	0.309	-	-10.4	20	125	0
Dibromomethane	0.174	0.155	-	10.9	20	98	0
1,2-Dichloropropane	40	36.066	-	9.8	20	102	0
Bromodichloromethane	0.397	0.37	-	6.8	20	103	0
1,4-Dioxane	0.00235	0.0018*	-	23.4*	20	82	0
cis-1,3-Dichloropropene	0.451	0.431	-	4.4	20	100	0
Chlorobenzene-d5	1	1	-	0	20	113	0
Toluene-d8	1.396	1.279	-	8.4	20	103	0
Toluene	0.932	0.958	-	-2.8	20	118	0
4-Methyl-2-pentanone	0.138	0.096	-	30.4*	20	79	0
Tetrachloroethene	40	44.318	-	-10.8	20	145	0
trans-1,3-Dichloropropene	0.54	0.485	-	10.2	20	97	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Instrument ID	: VOA123	**Calibration Date**	: 02/20/24 08:43
Lab File ID	: V23240220A01	**Init. Calib. Date(s)**	: 02/07/24 02/08/24
Sample No	: WG1887347-2	**Init. Calib. Times**	: 20:15 00:33
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,1,2-Trichloroethane	0.275	0.241	-	12.4	20	98	0
Chlorodibromomethane	0.395	0.379	-	4.1	20	104	0
1,3-Dichloropropane	0.545	0.481	-	11.7	20	98	0
1,2-Dibromoethane	0.319	0.293	-	8.2	20	99	0
2-Hexanone	0.252	0.16	-	36.5*	20	70	0
Chlorobenzene	1.067	1.103	-	-3.4	20	115	0
Ethylbenzene	1.731	1.809	-	-4.5	20	120	0
1,1,1,2-Tetrachloroethane	0.398	0.407	-	-2.3	20	111	0
p/m Xylene	0.662	0.726	-	-9.7	20	123	0
o Xylene	0.672	0.701	-	-4.3	20	117	0
Styrene	1.131	1.16	-	-2.6	20	111	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	118	0
Bromoform	0.48	0.417	-	13.1	20	99	0
Isopropylbenzene	3.164	3.336	-	-5.4	20	127	0
4-Bromofluorobenzene	0.931	0.808	-	13.2	20	102	0
Bromobenzene	0.906	0.896	-	1.1	20	115	0
n-Propylbenzene	3.676	3.809	-	-3.6	20	124	0
1,1,2,2-Tetrachloroethane	0.754	0.574	-	23.9*	20	89	0
2-Chlorotoluene	2.402	2.285	-	4.9	20	112	0
1,3,5-Trimethylbenzene	2.818	2.87	-	-1.8	20	122	0
1,2,3-Trichloropropane	0.583	0.442	-	24.2*	20	89	0
4-Chlorotoluene	2.419	2.368	-	2.1	20	115	0
tert-Butylbenzene	2.348	2.51	-	-6.9	20	129	0
1,2,4-Trimethylbenzene	2.842	2.822	-	0.7	20	118	0
sec-Butylbenzene	3.386	3.668	-	-8.3	20	131	0
p-Isopropyltoluene	3.043	3.301	-	-8.5	20	130	0
1,3-Dichlorobenzene	1.69	1.756	-	-3.9	20	122	0
1,4-Dichlorobenzene	1.71	1.758	-	-2.8	20	121	0
n-Butylbenzene	2.586	2.779	-	-7.5	20	131	0
1,2-Dichlorobenzene	1.614	1.609	-	0.3	20	116	0
1,2-Dibromo-3-chloropropan	0.129	0.095	-	26.4*	20	85	0
Hexachlorobutadiene	0.659	0.758	-	-15	20	146	0
1,2,4-Trichlorobenzene	1.16	1.263	-	-8.9	20	127	0
Naphthalene	2.342	2.227	-	4.9	20	109	0
1,2,3-Trichlorobenzene	1.043	1.076	-	-3.2	20	120	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants		Lab Number	: L2408101	
Project Name	: TUFTS STREET		Project Number	: 045163	
Instrument ID	: VOA123		Calibration Date	: 02/21/24 08:39	
Lab File ID	: V23240221A02		Init. Calib. Date(s)	: 02/07/24	02/08/24
Sample No	: WG1887734-2		Init. Calib. Times	: 20:15	00:33
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	105	0
Dichlorodifluoromethane	0.309	0.127	-	58.9*	20	47	0
Chloromethane	0.428	0.282	-	34.1*	20	71	0
Vinyl chloride	40	30.093	-	24.8*	20	89	0
Bromomethane	0.156	0.169	-	-8.3	20	121	0
Chloroethane	0.18	0.171	-	5	20	103	0
Trichlorofluoromethane	0.304	0.321	-	-5.6	20	120	0
Ethyl ether	0.14	0.127	-	9.3	20	96	0
1,1-Dichloroethene	0.224	0.242	-	-8	20	118	0
Carbon disulfide	0.855	0.821	-	4	20	108	0
Freon-113	0.244	0.242	-	0.8	20	120	0
Acrolein	0.044	0.033	-	25*	20	84	0
Methylene chloride	0.302	0.291	-	3.6	20	104	0
Acetone	40	30.718	-	23.2*	20	83	0
trans-1,2-Dichloroethene	0.272	0.293	-	-7.7	20	115	0
Methyl acetate	0.2	0.145	-	27.5*	20	78	0
Methyl tert-butyl ether	0.756	0.667	-	11.8	20	93	0
tert-Butyl alcohol	0.029	0.02	-	31*	20	76	0
Diisopropyl ether	1.212	1.045	-	13.8	20	89	0
1,1-Dichloroethane	0.556	0.543	-	2.3	20	102	0
Halothane	0.203	0.23	-	-13.3	20	122	0
Acrylonitrile	0.09	0.068	-	24.4*	20	82	0
Ethyl tert-butyl ether	1.027	0.919	-	10.5	20	93	0
Vinyl acetate	0.698	0.603	-	13.6	20	86	0
cis-1,2-Dichloroethene	0.318	0.325	-	-2.2	20	107	0
2,2-Dichloropropane	0.387	0.405	-	-4.7	20	113	0
Bromochloromethane	0.157	0.154	-	1.9	20	103	0
Cyclohexane	0.505	0.476	-	5.7	20	113	0
Chloroform	0.512	0.505	-	1.4	20	104	0
Ethyl acetate	0.297	0.221	-	25.6*	20	78	0
Carbon tetrachloride	40	39.44	-	1.4	20	122	0
Tetrahydrofuran	0.098	0.062	-	36.7*	20	75	0
Dibromofluoromethane	0.262	0.252	-	3.8	20	101	0
1,1,1-Trichloroethane	0.397	0.443	-	-11.6	20	119	0
2-Butanone	0.133	0.09	-	32.3*	20	74	0
1,1-Dichloropropene	40	41.608	-	-4	20	118	0
Benzene	1.072	1.105	-	-3.1	20	107	0
tert-Amyl methyl ether	0.792	0.706	-	10.9	20	93	0
1,2-Dichloroethane-d4	0.27	0.226	-	16.3	20	89	0
1,2-Dichloroethane	0.394	0.347	-	11.9	20	92	0
Methyl cyclohexane	0.456	0.44	-	3.5	20	120	0
Trichloroethene	0.28	0.302	-	-7.9	20	116	0
Dibromomethane	0.174	0.16	-	8	20	96	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Instrument ID	: VOA123	**Calibration Date**	: 02/21/24 08:39
Lab File ID	: V23240221A02	**Init. Calib. Date(s)**	: 02/07/24 02/08/24
Sample No	: WG1887734-2	**Init. Calib. Times**	: 20:15 00:33
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	40	36.624	-	8.4	20	98	0
Bromodichloromethane	0.397	0.382	-	3.8	20	101	0
1,4-Dioxane	0.00235	0.00213*	-	9.4	20	93	0
cis-1,3-Dichloropropene	0.451	0.438	-	2.9	20	97	0
Chlorobenzene-d5	1	1	-	0	20	109	0
Toluene-d8	1.396	1.265	-	9.4	20	99	0
Toluene	0.932	0.948	-	-1.7	20	113	0
4-Methyl-2-pentanone	0.138	0.101	-	26.8*	20	80	0
Tetrachloroethene	40	43.072	-	-7.7	20	136	0
trans-1,3-Dichloropropene	0.54	0.494	-	8.5	20	95	0
Ethyl methacrylate	0.412	0.338	-	18	20	88	0
1,1,2-Trichloroethane	0.275	0.247	-	10.2	20	97	0
Chlorodibromomethane	0.395	0.388	-	1.8	20	102	0
1,3-Dichloropropane	0.545	0.49	-	10.1	20	96	0
1,2-Dibromoethane	0.319	0.303	-	5	20	99	0
2-Hexanone	0.252	0.174	-	31*	20	73	0
Chlorobenzene	1.067	1.101	-	-3.2	20	111	0
Ethylbenzene	1.731	1.82	-	-5.1	20	117	0
1,1,1,2-Tetrachloroethane	0.398	0.414	-	-4	20	109	0
p/m Xylene	0.662	0.723	-	-9.2	20	118	0
o Xylene	0.672	0.701	-	-4.3	20	113	0
Styrene	1.131	1.144	-	-1.1	20	106	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	114	0
Bromoform	0.48	0.451	-	6	20	103	0
Isopropylbenzene	3.164	3.309	-	-4.6	20	122	0
4-Bromofluorobenzene	0.931	0.788	-	15.4	20	96	0
Bromobenzene	0.906	0.913	-	-0.8	20	113	0
n-Propylbenzene	3.676	3.856	-	-4.9	20	122	0
1,4-Dichlorobutane	1.133	0.895	-	21*	20	88	0
1,1,2,2-Tetrachloroethane	0.754	0.636	-	15.6	20	96	0
4-Ethyltoluene	3.23	3.405	-	-5.4	20	122	0
2-Chlorotoluene	2.402	2.275	-	5.3	20	108	0
1,3,5-Trimethylbenzene	2.818	2.899	-	-2.9	20	119	0
1,2,3-Trichloropropane	0.583	0.473	-	18.9	20	92	0
trans-1,4-Dichloro-2-buten	0.248	0.185	-	25.4*	20	84	0
4-Chlorotoluene	2.419	2.399	-	0.8	20	112	0
tert-Butylbenzene	2.348	2.504	-	-6.6	20	125	0
1,2,4-Trimethylbenzene	2.842	2.858	-	-0.6	20	115	0
sec-Butylbenzene	3.386	3.645	-	-7.6	20	126	0
p-Isopropyltoluene	3.043	3.318	-	-9	20	127	0
1,3-Dichlorobenzene	1.69	1.794	-	-6.2	20	121	0
1,4-Dichlorobenzene	1.71	1.787	-	-4.5	20	119	0
p-Diethylbenzene	1.89	2.073	-	-9.7	20	128	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: GEI Consultants	**Lab Number**	: L2408101
Project Name	: TUFTS STREET	**Project Number**	: 045163
Instrument ID	: VOA123	**Calibration Date**	: 02/21/24 08:39
Lab File ID	: V23240221A02	**Init. Calib. Date(s)**	: 02/07/24 02/08/24
Sample No	: WG1887734-2	**Init. Calib. Times**	: 20:15 00:33
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	2.586	2.799	-	-8.2	20	128	0
1,2-Dichlorobenzene	1.614	1.655	-	-2.5	20	115	0
1,2,4,5-Tetramethylbenzene	3.095	3.243	-	-4.8	20	118	0
1,2-Dibromo-3-chloropropan	0.129	0.11	-	14.7	20	96	0
1,3,5-Trichlorobenzene	1.334	1.538	-	-15.3	20	133	0
Hexachlorobutadiene	0.659	0.762	-	-15.6	20	142	0
1,2,4-Trichlorobenzene	1.16	1.318	-	-13.6	20	129	0
Naphthalene	2.342	2.244	-	4.2	20	106	0
1,2,3-Trichlorobenzene	1.043	1.121	-	-7.5	20	121	0

* Value outside of QC limits.

Massachusetts Department of Environmental Protection

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A. DISPOSAL SITE LOCATION:

1. Disposal Site Name: URAM
2. Street Address: 50 TUFTS STREET
3. City/Town: SOMERVILLE 4. Zip Code: 021450000

B. THIS FORM IS BEING USED TO: (check all that apply)

☐ 1. Correct typographical errors and/or make corrections that do not materially affect the nature or complexity of the response actions. If changes are materially significant, then a revised or modified submittal must be made to the Department. List the report/form that is being corrected that is associated with the above Release Tracking Number (RTN). Attach an errata sheet containing a description of the errors and/or corrections.

Form/Report | Submittal Date(mm/dd/yyyy) | Transaction ID

_____ _____ _____

☐ 2. Submit other documents associated with this RTN that cannot be submitted to the Department using any other BWSC transmittal form. Do not submit documents that are of a time-critical nature and/or that require a direct response from the Department and/or that require an LSP Opinion pursuant to 310 CMR 40.0015. (Section C is not required).

Description of Submittal _____

☐ 3. Resign as LSP-of-Record for the above Release Tracking Number (RTN). Attach a copy of the LSP resignation letter. (Section D, E, and F are not required).

☐ 4. Submit copies of Public Notices required pursuant to 310 CMR 40.1400: (check all that apply)
(Section C is not required)

- ☐ a. Tier I Classification — ☐ Check here if submitting a copy of a legal notice
- ☐ b. Tier II Classification — ☐ Check here if submitting a copy of a legal notice
- ☐ c. Immediate Response Action (IRA)
- ☐ d. Release Abatement Measure (RAM)
- ☐ e. Downgradient Property Status (DPS)
- ☐ f. Utility-related Abatement Measure (URAM)
- ☐ g. Comprehensive Response Actions
- ☐ h. Activities related to recording/registering an Activity and Use Limitation (AUL) — ☐ Check here if submitting a copy of a legal notice
- ☐ i. Permanent or Temporary Solution

DRAFT COPY

(All sections of this transmittal form must be filled out unless otherwise noted)

B. THIS FORM IS BEING USED TO(cont.): (check all that apply)

☐ 5. Submit Public Involvement Petition documents. (check all that apply). (Section C is not required).

- ☐ a. Submit a Public Involvement Petition
- ☐ b. Submit a Public Involvement Petition Retraction
- ☐ c. Submit a Positive Public Involvement Petition Designation Letter
- ☐ d. Submit a Negative Public Involvement Designation Letter
- ☐ e. Submit a Draft Public Involvement Petition Plan
- ☐ f. Submit a Revised Public Involvement Petition Plan
- ☐ g. Submit a Final Public Involvement Petition Plan
- ☐ h. Submit a Notice of Public Comment Period
  Date of Close of Comment Period : _____ (mm/dd/yyyy)
- ☐ i. Submit a copy of a Public Involvement Petition legal notice
- ☐ j. Submit a Notice of Public Meeting
  Meeting Date: _____ (mm/dd/yyyy)
- ☐ k. Submit one Public Involvement Petition related documents not specified above:
  Describe: _____

DRAFT COPY

☑ 6. Submit a RCRA Contained-In Determination document that soil and/or groundwater is no longer considered a hazardous waste pursuant to state (310 CMR 30.00) and federal (Title 40, Chapter I, Part 261 of the Code of Federal Regulations) hazardous waste regulations.

☐ 7. Submit notification and documentation of Reclamation Soil Reuse pursuant to 310 CMR 40.0031(2).

C. LSP SIGNATURE:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #: 7505
2. First Name: MICHAEL S 3. Last Name: GITTEN
4. Telephone: 7814041439 5. Ext.: _____ 6. Email: michael.gitten@oneatlas.com
7. Signature: _____
8. Date: _____ (mm/dd/yyyy)

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

Miscellaneous Document Transmittal Form

BWSC 126

Release Tracking Number
3 - 51811

D. PERSON MAKING A SUBMITTAL:

1. Check all that apply: ☐ a. Change in contact name ☐ b. Change of address ☐ c. Change in person undertaking response actions

2. Name of Organization: CITY OF SOMERVILLE

3. Contact First Name: COLIN 4. Last Name: ZEIGLER

5. Street: 1 FRANEY RD 6. Title: ENVIRONMENTAL HEALTH COORDINATOR

7. City/Town: SOMERVILLE 8. State: MA 9. ZIP Code: 021450000

10. Telephone: 6176256600 11. Ext.: 12. Email: czeigler@somervillema.gov

☐ 13. Check here if the person is a Public Involvement Petitioner

E. RELATIONSHIP TO SITE OF PERSON MAKING SUBMITTAL:

☑ Check here to change relationship

☐ 1. RP or PRP ☐ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter ☐ e. Other RP or PRP Specify:

☐ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c.21E, s.2)

☑ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c.21E, s.5(j))

☐ 4. Any Other Person Undertaking Response Actions Specify Relationship:

F. CERTIFICATION OF PERSON MAKING SUBMITTAL:

DRAFT COPY

1. I, _____, st under the pains and penalties or perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: _____ 3. Title: ENVIRONMENTAL HEALTH COORDINATOR
Signature

4. For: CITY OF SOMERVILLE 5. Date:
(Name of person or entity recorded in Section D) mm/dd/yyyy

☐ 6. Check here if the address of the person providing certification is different from address recorded in Section D.

7. Street:

8. City/Town: 9. State: 10. ZIP Code:

11. Telephone: 12. Ext.: 13. Email:

☐ Check here if any non-updatable information provided on this form is incorrect, e. g. property address. Send corrections to BWSC.eDEP@state.ma.us

YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY):

DRAFT COPY

10 State Street, Suite 100
Woburn, MA 01801
781-932.9400 | oneatlas.com

September 4, 2025

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION *via e-DEP*
Northeast Regional Office
Bureau of Waste Site Cleanup
150 Presidential Way
Woburn, Massachusetts 01606

Subject: **Utility-Related Abatement Measure Status Report #1**
Tufts Street Improvements Project
Tufts Street
Somerville, MA
RTN 3-51811
Atlas Project No. 6000007464

To Whom it May Concern:

On behalf of the City of Somerville, Atlas Technical Consultants LLC (Atlas) has prepared this Utility-Release Abatement Measure (URAM) Status Report to meet the requirements of the Massachusetts Contingency Plan (MCP) at 310 CMR 40.0465 covering the period from URAM oral notification provided May 9, 2025, to August 29, 2025. The URAM is supporting subsurface work taking place within the MCP Disposal Site boundary associated with Release Tracking Number (RTN) 3-23246. The project limits are shown on attached **Drawing 1** from the Tufts Street Improvement Project's Contract Documents. The BWSC-119 URAM Transmittal Form is submitted concurrently with this letter. A validated unsigned draft of the BWSC-119 is attached.

PROJECT BACKGROUND

This summarizes information presented in the URAM Notification Report (Atlas, May 2025) submitted to MassDEP May 19, 2025.

The City of Somerville Tufts Street Improvement Project is to implement traffic calming and accessibility improvements that will reconstruct sidewalks, install new raised stormwater inlets drains and other stormwater system enhancements to improve the current stormwater management system, and repave Tufts Street between Cross Street and Washington Street. The limit of work is shown on attached **Figures 1 and 2.** The URAM was initiated because the work area includes portions of the Disposal Site listed by the MassDEP under RTN 3-23246. This Disposal Site is associated with a release of tetrachloroethylene, also known as perchloroethylene (PCE), to soil and groundwater from a former chemical warehouse located at the abutting 50 Tufts Street property.

Atlas orally notified the Massachusetts Department of Environmental Protection (MassDEP) on May 9, 2025, of the plan to manage soil and groundwater within the Disposal Site for RTN 3-23246 as a URAM for the City of Somerville. The MassDEP assigned RTN 3-51811 for URAM activities.

STATUS OF RESPONSE OPERATIONS

This section provides the information required by 310 CMR 40.0465(2)(a).

The Contained In Determination (CID) (Atlas May 2025) included with the URAM Notification Report was not approved. Based upon consultation with MassDEP, Atlas collected additional soil samples along Tufts Street June 26, 2025. Atlas supervised the installation of 10 soil borings

identified as ATC-101 to ATC-110 for sampling and laboratory analyses of soil within the Tufts Street right-of-way. Locations were selected to reflect areas where the deepest soil excavation was proposed within the Disposal Site and to provide more data density. At each boring location, a discrete soil sample was collected by hand auger from the base of concrete or pavement to 0.5 feet below the anticipated excavation depth at that location. Sample depths are shown on **Table 1**. Soil boring locations are shown on **Figures 1 and 2**.

Soil samples were screened for total volatile organic compounds (VOCs), i.e., headspace, with a pre-calibrated photoionization detector (PID) in accordance with the MassDEP jar headspace method. PID levels were all below 0.5 parts per million volume/volume (ppmv/v). The soil samples were placed in laboratory provided containers and submitted to Eurofins laboratory under a chain of custody and analyzed for low level volatile organic compounds (VOCs) by EPA Method 8260. An updated CID was submitted to MassDEP via eDEP on July 10, 2025. Refer to the July 2025 CID submittal for additional details on the soil sampling program and associated laboratory reports.

On July 29, 2025, the MassDEP presumptive approval period of 21-days passed.

Tufts Street Improvements project field work has been delayed. The anticipated mobilization date is September 8, 2025.

SIGNIFICANT NEW SITE INFORMATION OR DATA

This section provides the information required by 310 CMR 40.0465(2)(b) and (c).

Altas utilized the soil data presented in the presumptively approved CID (July 2025) as presented on attached **Table 1** to refine the vertical extent of the Disposal Site associated with RTN 3-23246 to support worker safety and soil management as follows. The terms Regulated (Item 181.1), Unregulated (Items 181.12 and 181.13), and Hazardous Waste Soils (Item 181.14) are as defined by the project's Contract Documents:

- Soil within the horizontal limits of the Disposal Site for RTN 3-23246 included in the CID and above the groundwater table are not considered to be within the Disposal Site and will be managed outside this URAM. These soils are not considered MCP Comprehensive Response Action Remediation Waste and will be managed as Unregulated soils;
- Soil within the horizontal limits of the Disposal Site for RTN 3-23246, that is excavated from below the groundwater table, or above the groundwater table where chlorinated VOCs were detected, and are not Hazardous Waste Soils, will be managed as Regulated soils and Remediation Waste as part of this URAM; and
- Soil within the horizontal limits of the Disposal Site for RTN 3-23246 not included in the CID, expanded to extend to the nearest soil sample location where chlorinated VOCs were not detected to satisfy soil management facility requirements, will be managed as a listed hazardous waste (Hazardous Waste Soils) and Remediation Waste as part of this URAM.

The horizontal limits for the above areas are shown on **Figures 1 and 2**. These limits were generally defined by the halfway point between where soil samples were collected as was done for the CID following MassDEP's Technical Update, Considerations for Managing Contaminated Soil: RCRA Land Disposal Restrictions and Contained-In Determination (2010). With the horizontal limits of the area to be managed as Hazardous Waste Soils delineated as noted above.

The goal remains to reuse as much soil as possible within the area (e.g. Unregulated, Regulated, and Hazardous Waste Soils) from which it is excavated.

If dewatering is required, all recharge areas will be within an area identified as containing Regulated or Hazardous Waste Soils.

Based upon the soil data and CID limits work above the groundwater table, work outside the limits of the Hazardous Waste Soils will not be under the requirements of the Environmental Health and Safety Plan identified in the URAM Notification.

REMEDIATION WASTE

This section provides the information required by 310 CMR 40.0465(2)(c).

No remediation waste has been generated to date. The generation of soil and/or groundwater will be managed as described in the URAM Notification as modified by this submittal.

LSP OPINION

This section provides the information required by 310 CMR 40.0465(2)(d) and (e).

This section along with the BWSC-119, submitted concurrently with this report, provide the information required by 310 CMR 40.0465(2)(e) that it is the LSP's opinion that the URAM activities are being conducted in conformance with the provisions of 310 CMR 40.0000. MassDEP has not issued any site-specific conditions for this URAM.

LIMITATIONS

The substance, content, and findings of documents and/or other deliverables made to the City of Somerville (Client) including but not limited to reports, data, memorandums, and facsimiles, are for the sole use of the Client. No reliance for the data or findings contained in these deliverables may be extended to any third party without the express written consent of Atlas. Any unauthorized use or distribution of Atlas' work shall be at the Client's and recipient's sole risk and without liability to Atlas.

This report presents conditions observed and encountered at the Site on the days of Atlas' Site work only. The information presented in this report is based on our observations in the field at the time of our Site visit; a review of reasonably ascertainable documents and data; interviews with certain designated personnel; and a review of available agency files, as referenced herein.

Data was collected at a limited number of locations on the Site. Analysis was limited to those samples collected and those parameters specifically analyzed for and noted in this report. It should be noted that conditions in other portions of the property not sampled by Atlas may differ from those that were sampled. Conclusions, recommendations, and/or opinions in this report are based on information obtained from these installations, laboratory testing results, and applicable state regulations. Any qualitative or quantitative information regarding the Site, which was not available to Atlas at the time of this assessment, may result in a modification of the representations made in this report.

If further information regarding the information presented in this submittal is required, please contact Michael Gitten.

Respectfully submitted,

ATLAS

Michael Gitten, LSP, PE
Area Manager
for Atlas
Direct Line: (781) 404 1439
Email: michael.gitten@oneatlas.com

Aaron G. Lucci
Project Manager
for Atlas
Direct Line: (781) 404 1351
Email: aaron.lucci@oneatlas.com

Attachments:

Drawing 1
Figure 1 - Northwestern Project Extent
Figure 2 – Southeastern Project Extent
Table 1 – Soil Analytical Data Summary
Validated & Unsigned BWSC-119

Cc: Rebecca Wright, Somerville rwright@somervillema.gov

File:3-51811 Tufts St. Uram Status-9.4.25

2025 COMPLETE STREETS IMPROVEMENTS
TUFTS STREET

INDEX

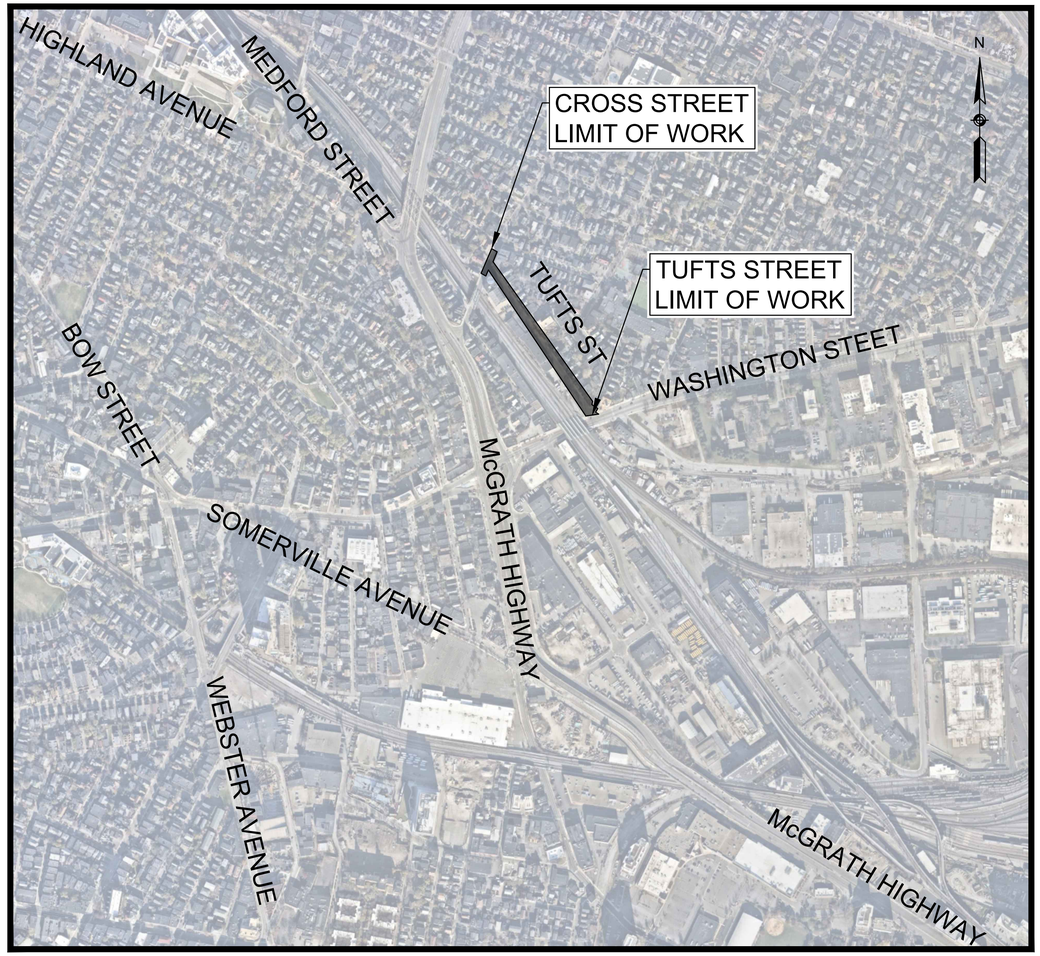
SHEET NO.	DESCRIPTION
1	TITLE SHEET AND INDEX
2	KEY PLAN
3	LEGEND AND ABBREVIATIONS
4 - 5	GENERAL PLANS
6 - 7	SIGNING & PAVEMENT MARKING PLANS
8	SIGN SUMMARY
9 - 10	GRADING PLANS
11 - 12	CURB TIE PLANS
13 - 14	LANDSCAPE CURB TIE PLANS
15	CONSTRUCTION DETAILS - TYPICAL SECTIONS
16 - 19	CONSTRUCTION DETAILS

IN THE CITY OF

SOMERVILLE

MIDDLESEX COUNTY

THESE PLANS ARE SUPPLEMENTED BY THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.



LOCUS

0 400 800 1200 1600

SCALE: 1" = 400'

TETRA TECH
www.tetratech.com
100 Nickerson Road
Marlborough, Massachusetts 01752
Phone: (508) 786-2200 Fax: (508) 786-2201

COMMONWEALTH OF MASSACHUSETTS
KYLE R WHITING
CIVIL
No. 52675
REGISTERED PROFESSIONAL ENGINEER

MARK	DATE	DESCRIPTION	BY
0	5/24/24	90% DESIGN SUBMISSION	KW
1	9/19/24	100% DESIGN SUBMISSION	KW
2	12/17/24	PS&E SUBMISSION	KW

City of Somerville

2024 Street Improvements
Somerville, Massachusetts

Title Sheet & Index

PROJ:	143-314177-23002
DESN:	KW
DRWN:	JJ
CHKD:	EP

Copyright Tetra Tech

12/16/2024 10:15:27 AM - P:\314177\143-314177-23002\CAD\SHEETFILES\TUFTS ST\TCV01.DWG - JAKUBAJTYS, JESSE

Bar Measures 1 inch, otherwise drawing not to scale

FIGURE LEGEND:

- SOIL BORING
- PROPOSED LANDSCAPED AREA - EXCAVATION TO 2.5-FEET BELOW EXISTING SURFACE WHEN EXISTING TREE NOT RETAINED
- PROPERTY BOUNDARY
- DISPOSAL SITE BOUNDARY 3-23246
- LIMIT OF WORK
- PROPOSED TREE
- RETAINED TREE

Figure based on 2024 Street Improvements, Tufts Street General Plan, Page 4 & 5 (TetraTech, 12/17/2024)

MATCH LINE – FIGURE 2

DISPOSAL SITE BOUNDARY RTN 3-23246

TUFTS STREET

DELL STREET

GLEN STREET

CROSS STREET

130 CROSS STREET N/F 130 CROSS ST LLC BK. 72735 PG. 162 MAP 92 BLOCK G LOT 31

61 TUFTS STREET N/F MARGO MILFORT ESTANY BK. 50330 PG. 379 MAP 92 BLOCK G LOT 30

57 TUFTS STREET N/F GIROLAMA GRIECO FOR LIFE BK. 72690 PG. 104 MAP 92 BLOCK G LOT 29

53 TUFTS STREET N/F ELISE O GREENIDGE BK. 36550 PG. 119 MAP 93 BLOCK A LOT 18

51 TUFTS STREET N/F MEROAD INC BK. 73051 PG. 341 MAP 93 BLOCK A LOT 17

49 TUFTS STREET N/F JOEL C. & RUTCHEL M EXCONDE BK. 54233 PG. 558 MAP 93 BLOCK A LOT 16

45–47 TUFTS STREET N/F DAVID G LAST BK. 51875 PG. 511 MAP 93 BLOCK A LOT 15_3

163 GLEN STREET #103 N/F ANA GUEVARA & JESSICA MAJANO BK. 79893 PG. 311 MAP 93 BLOCK A LOT 12_103

31 TUFTS STREET #L2 N/F TUFTS GLEN POCKET PARK LLC BK. 80154 PG. 207 MAP 93 BLOCK A LOT 13_L2

50 TUFTS STREET N/F UNIFIRST CORPORATION BK. 53377 PG. 596 MAP 93 BLOCK C LOT 3

60 TUFTS STREET N/F JAMES I RIDER BK. 32541 PG. 552 MAP 93 BLOCK C LOT 1_15

137 CROSS STREET N/F CARMELIA CORREIA FOR LIFE BK. 57876 PG. 315 MAP 92 BLOCK H LOT 1

Typical roadway pavement depth to 1.5 feet Includes 5in+/- asphalt over 8in+/- gravel base

Typical sidewalk depth to 1 foot Includes 4in +/– concrete over 8in+/– gravel base

ATC–1 ATC–2 ATC–3 ATC–4 ATC–5 ATC101 ATC102 ATC103 ATC104 ATC107

B101 B102

CB–03 CB–08 CB–10 DMH–02 DMH–06 DMH–07 DMH–09 GICI–01 GICI–04 GI–05 GICI–11 GICI–13 CIT–12

69LF 110 LF 14 LF 39LF 16LF 11LF

12" DIP 15" DIP

CONC SW VGC BIT SIDEWALK GUTTER LINE GIS ROW LINE TEMPORARY 6" CHAIN LINK FENCE CONSTRUCTION 6" CHAIN LINK FENCE

SOIL MANAGEMENT LEGEND:

Item 181.11 - "Unregulated Soil"

All soil outside horizontal limit of Disposal Site Boundary & soils within the project limits from soil surface to groundwater interface, excluding 181.12, 181.13 and 181.14 areas.

Item 181.12 & 181.13 "Regulated Soil (In State & Out of State Facility)

Item 181.14 "Hazardous Waste Soil"

Area proximate to B103, bounded by nearest clean soil sample.

Categories from 2025 Tufts Street Improvements bid specifications (City of Somerville)

DRAINAGE STRUCTURE DATA

NAME	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	APPROX. EXC. DEPTH
GICI–01	02+17.62 16.31' LT	29.94	--	27.44	(Not in Disposal Site)
DMH–02	02+04.73 1.52' RT	31.24	27.49 (GICI–01) 26.13 (CB–03)	--	(Not in Disposal Site)
CB–03	02+18.30 15.88' RT	29.67	--	26.17	(Not in Disposal Site)
GICI–04	11+27.63 6.50' RT	28.16	--	25.66	3 feet
GI–05	11+27.63 13.50' LT	27.41	--	24.91	3 feet
DMH–06	11+42.40 9.18' LT	28.14	25.54 (GICI–04) 24.91 (GI–05)	24.75	3 feet
DMH–07	12+16.21 9.18' LT	27.32	24.06 (DMH–06)	24.00	4 feet
CB–08	12+22.41 12.45' LT	27.13	--	23.63	4 feet
DMH–09	13+30.92 12.29' LT	26.75	23.03 (CB–10) 22.90 (DMH–07)	22.75	4.5 feet
CB–10	13+50.00 12.00' LT	26.63	--	23.13	4 feet
GICI–11	14+54.08 10.07' LT	26.07	--	23.57	3 feet
CIT–12	14+96.47 13.57' LT	25.75	23.29 (GICI–13)	--	3 feet
GICI–13	14+97.35 9.00' LT	25.80		23.30	3 feet

NOTE:
ALL STRUCTURES WITHIN DISPOSAL SITE BOUNDARY SHALL USE SEWER DRAIN PIPE FOR WATER TIGHT SEAL, OR DUCTILE IRON PIPE WITH RUBBER GASKETS.

DRAINAGE STRUCTURE DEPTHS CALCULATED USING DIFFERENCE BETWEEN RIM ELEVATION AND INLET/OUTLET ELEVATION, PLUS 0.5 FEET.

25 0 25 50
SCALE IN FEET

ATLAS

Soil Managment Areas
Northwestern Project Extent
City of Somerville
Tufts Street Right of Way Improvments
Somerville, MA

Project Number: 6000007464
Date: 08/26/2025
Drn. By: AGL
Ckd. By: MSG
Scale: AS SHOWN
Figure: 1

\\CORP.ATC.INT\ATC_FILESERVER\WOB_FILESERVER\ENVIRO\CLIENTS - PROJECTS\N - S\SOMERVILLE\TUFTS STREET\FIGURES & PLANS\CAD\TUFTS_ST_SOMERVILLE_MA.DWG, FIG 1 - PAGE 4

FIGURE LEGEND:

- SOIL BORING
- PROPOSED LANDSCAPED AREA - EXCAVATION TO 2.5-FEET BELOW EXISTING SURFACE WHEN EXISTING TREE NOT RETAINED
- PROPERTY BOUNDARY
- DISPOSAL SITE BOUNDARY 3-23246
- LIMIT OF WORK
- RETAINED TREE
- PROPOSED TREE

Figure based on 2024 Street Improvements, Tufts Street General Plan, Page 4 & 5 (TetraTech, 12/17/2024)

GLEN STREET

TUFTS STREET

KNOWLTON STREET

WASHINGTON STREET

27 TUFTS STREET N/F 27 TUFTS LLC BK. 72245 PG. 379 MAP 93 BLOCK B LOT 15

25 TUFTS STREET N/F KETAI WANG & YU TBE LI BK. 54689 PG. 171 MAP 93 BLOCK B LOT 14

23 TUFTS STREET N/F NILSON DASILVA BK. 33736 PG. 249 MAP 93 BLOCK B LOT 13

19 TUFTS STREET N/F GERALD & MAUREEN LAURETANO FOR LIFE BK. 71808 PG. 386 MAP 93 BLOCK B LOT 12

17 TUFTS STREET N/F HELENE PREVOST BK. 14677 PG. 544 MAP 93 BLOCK B LOT 11

13 TUFTS STREET #2 N/F CAYLA ASHLEY MACHLEIT BK. 79803 PG. 145 MAP 93 BLOCK B LOT 10_2

9 TUFTS STREET N/F AVANI COMPOS BK. 33959 PG. 198 MAP 93 BLOCK B LOT 9

12A KNOWLTON STREET N/F PEDRO JIMENEZ BK. 58453 PG. 70 MAP 93 BLOCK B LOT 8_12A

117 WASHINGTON STREET N/F CLAUDE AUGUSTIN BK. 56761 PG. 529 MAP 104 BLOCK A LOT 64

9 KNOWLTON STREET N/F ROBERT M & EILEEN G SCHOFIELD BK. 60857 PG. 242 MAP 104 BLOCK A LOT 2

121 WASHINGTON STREET N/F WOODEN TEETH LLC BK. 68763 PG. 428 MAP 104 BLOCK A LOT 1

50 TUFTS STREET N/F UNIFIRST CORPORATION BK. 53377 PG. 596 MAP 93 BLOCK C LOT 3

ATC-4 ATC-5 ATC-6 ATC-7 ATC-8 ATC105 ATC106 ATC107 ATC108 ATC109 ATC110

B103 B104 B105

CB-14 GICI-15 CIT-16 GICI-17 CIT-18 CIT-12 GICI-13

Typical roadway pavement depth to 1.5 ft Includes 5in+/- asphalt over 8in+/- gravel base

Typical sidewalk depth to 1 ft Includes 4in+/- concrete over 8in+/- gravel base

Area excluded from Contained In Determination

MATCH LINE – FIGURE 1

SOIL MANAGEMENT LEGEND:

Item 181.11 - "Unregulated Soil"

All soil outside horizontal limit of Disposal Site Boundary & soils within the project limits from soil surface to groundwater interface, excluding 181.12, 181.13 and 181.14 areas.

Item 181.12 & 181.13 "Regulated Soil (In State & Out of State Facility)

Item 181.14 "Hazardous Waste Soil"

Area proximate to B103, bounded by nearest clean soil sample.

Categories from 2025 Tufts Street Improvements bid specifications (City of Somerville)

25 0 25 50

SCALE IN FEET

DRAINAGE STRUCTURE DATA

NAME	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	APPROX. EXC. DEPTH
CB-14	17+20.51 8.58' LT	22.82	--	19.32	4FT
GICI-15	19+63.67 12.50' LT	15.51	--	13.01	3FT
CIT-16	19+69.60 14.12' LT	15.51	12.99	--	3FT
GICI-17	19+89.71 7.50' RT	14.26	--	11.76	3FT
CIT-18	19+89.54 13.11' RT	15.51	12.99	--	3FT
CIT-12	14+96.47 13.57' LT	25.75	23.29 (GICI-13)	--	3FT
GICI-13	14+97.35 9.00' LT	25.80	--	23.30	3FT

NOTE:
ALL STRUCTURES WITHIN DISPOSAL SITE BOUNDARY SHALL USE SEWER DRAIN PIPE FOR WATER TIGHT SEAL, OR DUCTILE IRON PIPE WITH RUBBER GASKETS.

DRAINAGE STRUCTURE DEPTHS CALCULATED USING DIFFERENCE BETWEEN RIM ELEVATION AND INLET/OUTLET ELEVATION, PLUS 0.5 FEET.

ATLAS

Soil Managment Areas
Southeastern Project Extent
City of Somerville
Tufts Street Right of Way Improvments
Somerville, MA

Project Number: 6000007464	
Date: 08/26/2025	
Drn. By: AGL	Ckd. By: MSG
Scale: AS SHOWN	
Figure: 2	

\\CORP.ATC.INT\ATC_FILESERVER\WOB_FILESERVER\ENVIRO\CLIENTS - PROJECTS\N - S\SOMERVILLE\TUFTS STREET\FIGURES & PLANS\CAD\TUFTS_ST_SOMERVILLE_MA.DWG, FIG 2 - PAGE 5

Table 1 - Soil Analytical Data Summary
Tufts Street - Somerville, MA

	MCP Reportable Concen-tration RCS-1	MCP Method 1 Standards			ATC-1	ATC-1	ATC-2	ATC-2	ATC-3	ATC-3	ATC-4	ATC-4
Laboratory ID					**620-17450-5**	**620-17450-6**	**620-17450-3**	**620-17450-4**	620-17450-1	620-17450-2	**620-17450-15**	**620-17450-16**
Sample Depth (feet)		**S-1/GW-1**	**S-1/GW-2**	**S-1/GW-3**	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**	**5-10**
Sample Collection Date					3/15/24	3/15/24	3/15/24	3/15/24	3/15/24	3/15/24	3/14/24	3/14/24
units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Headspace PID Reading (ppmv/v)					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Volatile Organic Compounds (VOCs) by EPA Method 8260C (mg/kg)												
Tetrachloroethene (PCE)	1	1	4	100	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526
Trichloroethene (TCE)	0.3	0.3	0.3	30	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526
cis-1,2-Dichloroethene	0.3	0.3	0.1	100	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526
trans-1,2-Dichloroethane	1	1	1	500	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526
1,2-Dichloroethane (total)	0.1	0.1	0.1	30	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526
Vinyl chloride	0.3	0.3	0.3	0.3	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526
Chlorobenzene	1	1	3	100	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526
Methylene Chloride(Dichloromethane)	0.1	0.1	3	300	< 0.00938	< 0.0106	<0.0109	< 0.0128	< 0.0197	< 0.0103	< 0.0101	< 0.0105
Toluene	30	30	500	500	< 0.00469	< 0.00532	< 0.00546	< 0.00641	< 0.00984	< 0.00516	<0.00504	< 0.00526

Notes:
MCP = Massachusetts Contingency Plan; 310 CMR 40.0000 (3/1/24)
ppmv/v = Parts per million volitiles by volume
mg/Kg = milligrams per kilogram
Bold indicates detected above laboratory method reporting limit
Green shading indicates above Method 1 S-1 GW-1 Standard
Yellow shading indicates above Method 1 S-1/GW-1 and S-1/GW-2 Standard
NA = Not Analyzed

Table 1 - Soil Analytical Data Summary
Tufts Street - Somerville, MA

	MCP Reportable Concen-tration RCS-1	MCP Method 1 Standards			ATC-5	ATC-5	ATC-6	ATC-6	ATC-7	ATC-7	ATC-8	ATC-8
Laboratory ID					**620-17450-17**	**620-17450-18**	**620-17450-13**	**620-17450-14**	**620-17450-11**	**620-17450-12**	**620-17450-9**	**620-17450-10**
Sample Depth (feet)		**S-1/GW-1**	**S-1/GW-2**	**S-1/GW-3**	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**	**5-10**	**0-5**	**5-10**
Sample Collection Date					3/14/24	3/14/24	3/14/24	3/14/24	3/14/24	3/14/24	3/14/24	3/14/24
units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Headspace PID Reading (ppmv/v)					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Volatile Organic Compounds (VOCs) by EPA Method 8260C (mg/kg)												
Tetrachloroethene (PCE)	1	1	4	100	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67	< 0.0126	< 0.00619	**0.0134**
Trichloroethene (TCE)	0.3	0.3	0.3	30	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67	< 0.0126	< 0.00619	< 0.00494
cis-1,2-Dichloroethene	0.3	0.3	0.1	100	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67	< 0.0126	< 0.00619	< 0.00494
trans-1,2-Dichloroethane	1	1	1	500	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67	< 0.0126	< 0.00619	< 0.00494
1,2-Dichloroethane (total)	0.1	0.1	0.1	30	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67	< 0.0126	< 0.00619	< 0.00494
Vinyl chloride	0.3	0.3	0.3	0.3	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67	< 0.0126	< 0.00619	< 0.00494
Chlorobenzene	1	1	3	100	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67	< 0.0126	< 0.00619	< 0.00494
Methylene Chloride(Dichloromethane)	0.1	0.1	3	300	< 0.0985	< 0.0887	< 0.0104	< 0.0115	< 0.00934	< 0.0253	< 0.0124	< 0.00988
Toluene	30	30	500	500	<0.00492	< 0.00443	< 0.00521	< 0.00575	< 0.00.67	< 0.0126	< 0.00619	< 0.00494

Notes:
MCP = Massachusetts Contingency Plan; 310 CMR 40.0000 (3/1/24)
ppmv/v = Parts per million volitiles by volume
mg/Kg = milligrams per kilogram
Bold indicates detected above laboratory method reporting limit
Green shading indicates above Method 1 S-1 GW-1 Standard
Yellow shading indicates above Method 1 S-1/GW-1 and S-1/GW-2 Standard
NA = Not Analyzed

Table 1 - Soil Analytical Data Summary
Tufts Street - Somerville, MA

	MCP Reportable Concen-tration RCS-1	MCP Method 1 Standards			50TUFT-B101	50TUFT-B101	50TUFT-B101	50TUFT-B102	50TUFT-B102	50TUFT-B103 (Not included in CID)	50TUFT-B103 (Not included in CID)	50TUFT-B103 (Not included in CID)	50TUFT-B104	50TUFT-B104	50TUFT-B104
Laboratory ID					L2408101-01	L2408101-02	L2408101-03	L2408101-04	L2408101-05	L2408101-06	L2408101-07	L2408101-08	L2408101-09	L2408101-10	L2408101-11
Sample Depth (feet)		S-1/GW-1	S-1/GW-2	S-1/GW-3	0-1	1-3	3-5	0-1	1-3	0-1	1-3	3-5	0-1	1-3	3-5
Sample Collection Date					2/12/24	2/12/24	2/12/24	2/12/24	2/12/24	2/12/24	2/12/24	2/12/24	2/12/24	2/12/24	2/12/24
units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Headspace PID Reading (ppmv/v)					0.0	0.0	0.0	0.0	0.1	0.6	21.8	0.1	0.1	0.9	0.3
Volatile Organic Compounds (VOCs) by EPA Method 8260C (mg/kg)															
Tetrachloroethene (PCE)	1	1	4	100	**0.0023**	<0.00033	**0.015**	**0.00048**	**0.001**	**100**	**2.8**	**0.00052**	**0.023**	**0.015**	**0.0024**
Trichloroethene (TCE)	0.3	0.3	0.3	30	<0.00037	<0.00033	<0.00026	<0.00032	**0.00037**	**0.24**	<0.031	<0.00032	<0.00029	<0.00033	<0.00044
cis-1,2-Dichloroethene	0.3	0.3	0.1	100	<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	**0.094**	<0.061	<0.00063	<0.00057	<0.00067	<0.00088
trans-1,2-Dichloroethane	1	1	1	500	<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	<0.046	<0.061	<0.00063	<0.00057	<0.00067	<0.00088
1,2-Dichloroethane (total)	0.1	0.1	0.1	30	<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	**0.094**	<0.061	<0.00063	<0.00057	<0.00067	<0.00088
Vinyl chloride	0.3	0.3	0.3	0.3	<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	<0.046	<0.061	<0.00063	<0.00057	<0.00067	<0.00088
Chlorobenzene	1	1	3	100	<0.00037	<0.00033	<0.00026	<0.00032	<0.00029	<0.023	<0.031	<0.00032	<0.00029	<0.00033	<0.00044
Methylene Chloride(Dichloromethane)	0.1	0.1	3	300	<0.0074	<0.0066	<0.0051	<0.0064	<0.0029	<0.230	<0.310	<0.0063	<0.0057	<0.0067	<0.0088
Toluene	30	30	500	500	<0.00074	<0.00066	<0.00051	<0.00064	<0.00058	<0.046	<0.061	<0.00063	<0.00057	<0.00067	<0.00088

Notes:
MCP = Massachusetts Contingency Plan; 310 CMR 40.0000 (3/1/24)
ppmv/v = Parts per million volitiles by volume
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Bold indicates detected above laboratory method reporting limit
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Yellow shading indicates above Method 1 S-1/GW-1 and S-1/GW-2 Standard
NA = Not Analyzed

Table 1 - Soil Analytical Data Summary
Tufts Street - Somerville, MA

	MCP Reportable Concen-tration RCS-1	MCP Method 1 Standards			50TUFT-B105	50TUFT-B105	ATC-101	ATC-102	ATC-103	ATC-104	ATC-105	ATC-106	ATC-107	ATC-108	ATC-109	ATC-110
Laboratory ID					L2408101-12	L2408101-13	620-27214-1	620-27214-2	620-27214-3	620-27214-4	620-27214-5	620-27214-6	620-27214-7	620-27214-8	620-27214-9	620-27214-10
Sample Depth (feet)		S-1/GW-1	S-1/GW-2	S-1/GW-3	0-1	1-3	0.6-3.0	0.3-4.5	0.2-3.0	0.3-3.0	0.5-4.0	0.5-3.0	0.2-3.0	0.2-3.0	0.8-3.0	0.3-3.0
Sample Collection Date					2/12/24	2/12/24	6/26/25	6/26/25	6/26/25	6/26/25	6/26/25	6/26/25	6/26/25	6/26/25	6/26/25	6/26/25
units		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Headspace PID Reading (ppmv/v)					0.0	0.1	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Volatile Organic Compounds (VOCs) by EPA Method 8260C (mg/kg)																
Tetrachloroethene (PCE)	1	1	4	100	**0.81**	**0.01**	**0.00651**	<0.00404	<0.00381	<0.00349	<0.00361	<0.00416	<0.00462	<0.00386	<0.00396	**0.0241**
Trichloroethene (TCE)	0.3	0.3	0.3	30	<0.022	<0.00061	<0.00242	<0.00404	<0.00381	<0.00349	<0.00361	<0.00416	<0.00462	<0.00386	<0.00396	<0.00281
cis-1,2-Dichloroethene	0.3	0.3	0.1	100	<0.044	<0.0012	<0.00242	<0.00404	<0.00381	<0.00349	<0.00361	<0.00416	<0.00462	<0.00386	<0.00396	<0.00281
trans-1,2-Dichloroethane	1	1	1	500	<0.044	<0.0012	<0.00242	<0.00404	<0.00381	<0.00349	<0.00361	<0.00416	<0.00462	<0.00386	<0.00396	<0.00281
1,2-Dichloroethane (total)	0.1	0.1	0.1	30	<0.044	<0.0012	<0.00242	<0.00404	<0.00381	<0.00349	<0.00361	<0.00416	<0.00462	<0.00386	<0.00396	<0.00281
Vinyl chloride	0.3	0.3	0.3	0.3	**0.053**	<0.0012	<0.00242	<0.00404	<0.00381	<0.00349	<0.00361	<0.00416	<0.00462	<0.00386	<0.00396	<0.00281
Chlorobenzene	1	1	3	100	<0.022	<0.00061	<0.00242	<0.00404	<0.00381	<0.00349	<0.00361	<0.00416	<0.00462	<0.00386	<0.00396	<0.00281
Methylene Chloride(Dichloromethane)	0.1	0.1	3	300	<0.220	<0.0061	<0.00484	<0.00807	<0.00762	<0.00699	<0.00721	<0.00833	<0.00924	<0.00771	<0.00793	<0.00562
Toluene	30	30	500	500	**0.053**	<0.0012	<0.00242	<0.00404	<0.00381	<0.00349	<0.00361	<0.00416	<0.00462	<0.00386	<0.00396	<0.00281

Notes:
MCP = Massachusetts Contingency Plan; 310 CMR 40.0000 (3/1/24)
ppmv/v = Parts per million volitiles by volume
mg/Kg = milligrams per kilogram
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Green shading indicates above Method 1 S-1 GW-1 Standard
Yellow shading indicates above Method 1 S-1/GW-1 and S-1/GW-2 Standard
NA = Not Analyzed

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC 119

Release Tracking Number
3 - 51811

UTILITY-RELATED ABATEMENT MEASURE (URAM) TRANSMITTAL FORM

Pursuant to 310 CMR 40.0462 - 0465 (Subpart D)

A.SITE LOCATION:

1.Site Name/Location Aid: URAM

2.Street Address: 50 TUFTS STREET

3.City/Town: SOMERVILLE 4.ZIP Code: 02145

☑ 5.Check here if the disposal site that is the source of the release is Tier Classified. Check the current Tier Classification Category.

☐ a.Tier I ☐ b.Tier ID ☑ c.Tier II

☐ 6. Check here if the disposal site that is the source of the release has achieved a Permanent Solution Statement. Add check boxes:

☐ a. Permanent Solution without Conditions ☐ b. Permanent Solution with Conditions (no AUL)

☐ c. Permanent Solutions with Conditions (with an AUL)

B.THIS FORM IS BEING USED TO: (check all that apply)

☐ 1. Provide confirmation on an oral **Utility-related Abatement Measure (URAM) Notification.** (Sections D & E are not required)

☐ a. Provide Date of Oral Notification.

b. _____ (mm/dd/yyyy)

Is the URAM limited to the excavation and/or handling of not more than 100 cubic yards of soil contaminated by Oil, or not more than 20 cubic yards of soil contaminated either by a Hazardous Material or a mixture of a Hazardous Material and Oil?

☐ c.Yes ☐ d.No ii. If No, provide LSP Name and License Number:i.LSP #: _____

ii.First Name: _____ iii.Last Name: _____

☑ 2.Submit a **URAM Status Report**.

☐ 3.Submit a **Remedial Monitoring Report**, as Form BWSC119A. (This report can only be submitted through eDEP, concurrent with a URAM Status Report.)

a.Type of Report: (check one) ☐ i.Initial Report ☐ ii.Interim Report ☐ iii.Final Report

b.Number of Remedial Systems and/or Monitoring Programs: _____

A separate BWSC119A, URAM Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program addressed by this transmittal form.

☐ 4.Submit a **URAM Completion Statement.**

Is the URAM limited to the excavation and/or handling of not more than 100 cubic yards of soil contaminated by Oil, or not more than 20 cubic yards of soil contaminated either by a Hazardous Material or a mixture of a Hazardous Material and Oil?

☐ a.Yes, Section E is not required ☐ b.No

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UTILITY-RELATED ABATEMENT MEASURE (URAM) TRANSMITTAL FORM
Pursuant to 310 CMR 40.0462 - 0465 (Subpart D)

B.THIS FORM IS BEING USED TO: (cont.)
☐ 5.Submit a **Revised URAM Completion Statement.**

Is the URAM limited to the excavation and/or handling of not more than 100 cubic yards of soil contaminated by Oil, or not more than 20 cubic yards of soil contaminated either by a Hazardous Material or a mixture of a Hazardous Material and Oil?

☐ a.Yes, Section E is not required ☐ b.No

(All sections of this transmittal form must be filled out unless otherwise noted above)

C.RELEASE OR THREAT OF RELEASE CONDITIONS THAT WARRANT URAM:

1.Identify Location Type: (check all that apply) ☑ a.Public Right of Way ☐ b.Utility Easement ☐ c.Private Property

2.Identify Utility Type: (check all that apply) ☑ a.Drainage ☐ b.Electric ☐ c.Natural Gas

☐ d.Sanitary/Combined Sewerage ☐ e.Steam Lines ☐ f.Telecommunications ☐ g.Telephone

☐ h.Water ☐ i.Other Specify: _____

3.Source of the Release or Thread of Release (TOR): (check all that apply) ☐ a.Transformer ☐ b.Fuel Tank ☐ c.Pipe

☐ d.OHM Delivery ☐ e.AST ☐ f.Drums ☐ g.Tanker Truck ☐ h.Hose ☐ i.Line

☐ j.UST Describe: ☐ k.Vehicle ☐ l.Boat/Vessel

☐ m.Unknown ☑ n.Other: HISTORIC CHEMICAL STORAGE

4.Identify Oils and Hazardous Materials Released: (check all that apply)

☐ a.Oils ☑ b.Chlorinated Solvents ☐ c.Heavy Metals

☐ d.OthersSpecify:

D.DESCRIPTION OF RESPONSE ACTIONS:(check all that apply, for volumes, cumulative amounts)

☑ 1.Assessment and/or Monitoring Only
☐ 2.Temporary Cover or Caps
☐ 3.Deployment of Absorbent or Containment Materials
☐ 4.Temporary Water Supplies
☐ 5.Structure Venting System
☐ 6.Temporary Evacuation or Relocation of Residents
☐ 7.Product or NAPL Recovery
☐ 8.Fencing and Sign Posting
☐ 9.Groundwater Treatment Systems
☐ 10.Soil Vapor Extraction
☐ 11.Bioremediation
☐ 12.Air Sparging

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D.DESCRIPTION OF RESPONSE ACTIONS (cont.):(check all that apply, for volumes list cumulative amounts)

☐ 13.Excavation of Contaminated Soils

☐ a.Re-use, Recycling or Treatment ☐ i.On Site Estimated volume in cubic yards _____
☐ ii.Off Site Estimated volume in cubic yards _____
iia.Receiving Facility: _____ Town: _____ State: _____
iib.Receiving Facility: _____ Town: _____ State: _____
iii.Describe: _____
☐ b.Store ☐ i.On Site Estimated volume in cubic yards _____
☐ ii.Off Site Estimated volume in cubic yards _____
iia.Receiving Facility: _____ Town: _____ State: _____
iib.Receiving Facility: _____ Town: _____ State: _____
☐ c.Landfill
☐ i.Cover Estimated volume in cubic yards _____
Receiving Facility: _____ Town: _____ State: _____
☐ ii.Disposal Estimated volume in cubic yards _____
Receiving Facility: _____ Town: _____ State: _____

☐ 14.Removal of Drums, Tanks or Containers:
a.Describe Quantity and Amount:
b.Receiving Facility: _____ Town: _____ State: _____
c.Receiving Facility: _____ Town: _____ State: _____

☐ 15.Removal of Other Contaminated Media:
a.Specify Type and Volume:
b.Receiving Facility: _____ Town: _____ State: _____
c.Receiving Facility: _____ Town: _____ State: _____

☐ 16.Other Response Actions:
Describe:

☐ 17.Use of Innovative Technologies:
Describe:

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UTILITY-RELATED ABATEMENT MEASURE (URAM) TRANSMITTAL FORM
Pursuant to 310 CMR 40.0462 - 0465 (Subpart D)

E.LSP SIGNATURE AND STAMP:
I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal.In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> *if Section B of this form indicates that a* ***Utility-Related Abatement Measure Status Report*** *and/or a* ***Remedial Monitoring Report*** *is being submitted*, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B of this form indicates that a* ***Utility-Related Abatement Measure Completion Statement*** *is being submitted*, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) comply (ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1.LSP #: 7505
2.First Name: MICHAEL S 3.Last Name: GITTEN
4.Telephone: 7814041439 5.Ext.: 6.Email: michael.gitten@oneatlas.com
7.Signature:
8.Date: (mm/dd/yyyy) 9.LSP Stamp:

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UTILITY-RELATED ABATEMENT MEASURE (URAM) TRANSMITTAL FORM
Pursuant to 310 CMR 40.0462 - 0465 (Subpart D)

F.PERSON UNDERTAKING URAM:

1.Check all that apply: ☐ a.change in contact name ☐ b.change of address ☐ c.change in the person undertaking response actions

2.Name of Organization: CITY OF SOMERVILLE

3.Contact First Name: COLIN 4.Last Name: ZEIGLER

5.Street: 1 FRANEY RD 6.Title: ENVIRONMENTAL HEALTH COORDINATOR

7.City/Town: SOMERVILLE 8.State: MA 9.ZIP Code: 021450000

10.Telephone: 6176256600 11.Ext.: 12.Email: czeigler@somervillema.gov

G.RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON UNDERTAKING URAM:

☑ Check here to change relationship

☐ 1.RP or PRP ☐ a.Owner ☐ b.Operator ☐ c.Generator ☐ d.Transporter

☐ e.Other RP or PRP Specify:

☐ 2.Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

☑ 3.Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

☐ 4.Any Other Person Undertaking URAM Specify Relationship:

H.REQUIRED ATTACHMENT AND SUBMITTALS:

☐ 1.Check here if any Remediation Waste, generated as a result of this URAM, will be stored, treated, managed, recycled or reused at the site following submission of the URAM Completion Statement. If this box is checked, you must submit one of the following plans, along with the appropriate transmittal form.

☐ a.A Release Abatement Measure (RAM) Plan (BWSC106) ☐ b.Phase IV Remedy Implementation Plan (BWSC108)

☐ 2.Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

☐ 3.Check here if the property owner was NOT contacted prior to initiation of the URAM. If this is the case, you must attach an explanation of why the owner was not contacted, including the date and time when contact ultimately occurred.

☐ 4.Check here if this URAM will occur in connection with the construction of new public utilities. If this is the case, document the nature and extent of encountered contamination, the scope and expense of necessary mitigation and the benefits and limitations of project alternatives.

☐ 5.Check here if any non-updatable information provided on this form is incorrect, e.g. Release Address/Location Aid. Send corrections to BWSC.eDEP@Mass.Gov.

☑ 6.Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

DRAFT COPY

UTILITY-RELATED ABATEMENT MEASURE (URAM) TRANSMITTAL FORM

Pursuant to 310 CMR 40.0462 - 0465 (Subpart D)

I.CERTIFICATION OF PERSON UNDERTAKING URAM:

1.I, _____ , attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2.By: _____ (Signature)

3.Title: ENVIRONMENTAL HEALTH COORDINATOR

4.For: CITY OF SOMERVILLE (Name of person or entity recorded in Section F)

5.Date: _____ (mm/dd/yyyy)

☐ 6.Check here if the address of the person providing certification is different from address recorded in Section F.

7.Street: _____

8.City/Town: _____ 9.State: _____ 10.ZIP Code: _____

11.Telephone: _____ 12.Ext.: _____ 13.Email: _____

YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)

DRAFT COPY